

Supplementary Materials: Neutralizing Monoclonal Antibody, mAb 10D8, Is an Effective Detoxicant against Abrin-a Both In Vitro and In Vivo

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Figure S1. The subclasses of mAbs were by rapid isotyping cassettes represented by 10D8.

Table S1. The affinity and kinetics constants of mAbs against abrin-a [19] and isotypes.

	ka (M⁻¹s⁻¹)	kd (s⁻¹)	Kd (pM)	isotype
10D8	(13.1 ± 0.8) × 10 ⁶	(5.1 ± 0.3) × 10 ⁻⁵	4.9 ± 0.5	IgG1 Kappa Chain
10C9	(3.0 ± 0.1) × 10 ⁶	(0.6 ± 0.1) × 10 ⁻⁵	2.2 ± 0.1	IgG1 Kappa Chain
5A10	(1.4 ± 0.6) × 10 ⁷	(1.6 ± 0.004) × 10 ⁻⁵	1.4 ± 0.6	IgG1 Kappa Chain
5G7	(1.3 ± 0.1) × 10 ⁶	(3.9 ± 0.9) × 10 ⁻⁵	32 ± 1.0	IgG1 Kappa Chain

The affinity and kinetics constants of mAbs against abrin-a were determined by the SPR method established in our lab [19]. The subclasses of mAbs were determined by rapid isotyping cassettes (Thermo Fisher Scientific, Rockford, IL, USA).

A Mascot Search Results

User : lzh
Email : cpulzh96@163.com
Search title : abrin a
MS data file : abrin_a.mgf
Database : SwissProt 2021_04 (565928 sequences; 204173280 residues)
Taxonomy : Viridiplantae (Green Plants) (40988 sequences)
Timestamp : 19 Jan 2022 at 11:21:10 GMT
Enzyme : Trypsin
Fixed modifications : Carbamidomethyl (C)
Variable modifications : Acetyl (N-term)
Mass values : Monoisotopic
Protein Mass : Unrestricted
Peptide Mass Tolerance : ± 5 ppm
Fragment Mass Tolerance : ± 5 ppm
Max Missed Cleavages : 1
Instrument type : Default
Number of queries : 7865
Protein hits : [AB01_ABRP7](#) Abrin-a OS=Aborus precatorius OX=3816 PE=1 SV=2

Query	Mod(s)	Mod(s)	ppm	Miss	Score	Expect	Rank	Uniqe	Peptide	
Bon's Online proteomic search (BON) Pro 10.02										
Observed	M (kDa)	M (kDa)								
2384	302.1845	792.5041	792.5048	-0.38	0	24	0.015	1	0	K.GSPPFLA Q 2384 2385 2386 2387 2388 2389 2390
2385	495.7469	875.0171	875.0168	0.76	0	36	0.0006	1	0	K.VTFVLA Q 2385 2386 2387 2388
2386	501.7699	1041.0322	1041.0343	0.87	0	44	2.7e-06	1	0	K.ACTQVLA R 2386 2387 2388 2389 2390
2387	607.3430	1272.0714	1272.0714	-0.00	0	45	0.00018	1	0	K.LTQVLA R 2387 2388 2389 2390
2388	455.8392	1384.0686	1384.0685	0.13	0	2360	0.0008	1	0	K.PTTSQVLA R 2388 2389 2390
2389	463.3018	1394.0991	1394.0989	0.49	0	86	9.1e-09	1	0	K.PTTSQVLA R 2389 2390
2390	463.3030	1394.0335	1394.0334	0.40	0	79	6.7e-08	1	0	K.PTTSQVLA R 2390 2391
2391	455.8558	1384.0336	1384.0334	0.13	0	240	0.7e-05	1	0	K.SQVLA R 2391 2392
2392	730.8803	1565.7461	1565.7474	-0.45	0	41	0.00082	1	0	K.DANVLA R 2392 2393
2393	605.3810	1041.0311	1041.0307	0.13	0	239	0.0005	1	0	K.SQVLA R 2393 2394
2394	465.4602	1041.7707	1041.7702	-0.29	0	20	0.011	1	0	K.SQVLA R 2394 2395
2395	465.4441	1041.7705	1041.7702	-0.19	0	141	0.00013	1	0	K.SQVLA R 2395 2396
2396	1175.0159	2345.1193	2345.1179	-0.45	0	14	7.4e-06	1	0	K.SQVLA R 2396 2397
2397	730.3805	2345.1379	2345.1339	-1.74	0	1473	0.00012	1	0	K.SQVLA R 2397 2398

B Mascot Search Results

User : lzh
Email : cpulzh96@163.com
Search title : abrin b
MS data file : abrin_b.mgf
Database : SwissProt 2021_04 (565928 sequences; 204173280 residues)
Taxonomy : Viridiplantae (Green Plants) (40988 sequences)
Timestamp : 19 Jan 2022 at 11:31:46 GMT
Enzyme : Trypsin
Fixed modifications : Carbamidomethyl (C)
Variable modifications : Acetyl (N-term)
Mass values : Monoisotopic
Protein Mass : Unrestricted
Peptide Mass Tolerance : ± 5 ppm
Fragment Mass Tolerance : ± 5 ppm
Max Missed Cleavages : 1
Instrument type : Default
Number of queries : 7994
Protein hits : [AB01_ABRP7](#) Abrin-b OS=Aborus precatorius OX=3816 PE=1 SV=1

Protein IDs		Mod(s)		Mod(s)		ppm		Miss		Score		Expect		Rank		Uniqe		Peptide	
Query		Observed		Mod(s)		ppm		Miss		Score		Expect		Rank		Uniqe		Peptide	
465.0905		865.3775	865.3772	0.24	0	0.007	1	0	0	0.007	1	0	0	0	0	0	0	0	K.SQVLA R 2398 2399
438.7587		875.4968	875.4965	0.47	0	36	0.00043	1	0	36	0.00043	1	0	0	0	0	0	0	K.SQVLA R 2399 2400
507.3430		1272.0714	1272.0714	-0.00	0	44	6.5e-05	1	0	44	6.5e-05	1	0	0	0	0	0	0	K.SQVLA R 2400 2401
412.1038		1235.7349	1235.7350	0.47	0	40	1.5e-05	1	0	40	1.5e-05	1	0	0	0	0	0	0	K.SQVLA R 2401 2402
418.0751		1235.7356	1235.7359	0.47	0	51	1.5e-05	1	0	51	1.5e-05	1	0	0	0	0	0	0	K.SQVLA R 2402 2403
495.7471		875.0176	875.0174	0.49	0	42	0.0007	1	0	42	0.0007	1	0	0	0	0	0	0	K.SQVLA R 2403 2404
465.5451		1318.0440	1318.0401	0.39	0	132	0.0002	1	0	132	0.0002	1	0	0	0	0	0	0	K.PTTSQVLA R 2404 2405
465.5398		1318.0446	1318.0401	0.36	0	89	6.4e-07	1	0	89	6.4e-07	1	0	0	0	0	0	0	K.PTTSQVLA R 2405 2406
465.5349		1364.4032	1364.4034	-0.14	0	71	3.5e-07	1	0	71	3.5e-07	1	0	0	0	0	0	0	K.SQVLA R 2406 2407
455.8558		1384.0336	1384.0334	0.13	0	232	0.00091	1	0	232	0.00091	1	0	0	0	0	0	0	K.SQVLA R 2407 2408
738.0776		1475.7407	1475.7409	-0.12	0	27	0.0007	1	0	27	0.0007	1	0	0	0	0	0	0	K.SQVLA R 2408 2409
511.0971		1563.0804	1563.0794	0.45	1	49	0.00074	1	0	49	0.00074	1	0	0	0	0	0	0	K.SQVLA R 2409 2410
783.0986		1562.7407	1562.7415	0.44	0	147	0.0009	1	0	147	0.0009	1	0	0	0	0	0	0	K.SQVLA R 2410 2411
522.9235		1565.7402	1565.7413	0.58	0	130	0.001	1	0	130	0.001	1	0	0	0	0	0	0	K.SQVLA R 2411 2412
544.4626		1686.8123	1686.8122	0.14	0	129	0.008	1	0	129	0.008	1	0	0	0	0	0	0	K.SQVLA R 2412 2413
625.9794		1896.8123	1896.8123	0.00	0	75	1.5e-07	1	0	75	1.5e-07	1	0	0	0	0	0	0	K.SQVLA R 2413 2414
654.4548		1900.9746	1900.9747	-0.09	0	79	6.4e-07	1	0	79	6.4e-07	1	0	0	0	0	0	0	K.SQVLA R 2414 2415
993.2962		1984.7706	1984.7702	-0.19	0	147	0.0009	1	0	147	0.0009	1	0	0	0	0	0	0	K.SQVLA R 2415 2416
654.4608		1984.7701	1984.7702	0.45	0	14	1.2e-05	1	0	14	1.2e-05	1	0	0	0	0	0	0	K.SQVLA R 2416 2417
745.0887		2226.2372	2226.2372	0.45	0	38	0.00021	1	0	38	0.00021	1	0	0	0	0	0	0	K.SQVLA R 2417 2418

C Mascot Search Results

User : lzh
Email : cpulzh96@163.com
Search title : AAG
MS data file : AAG.mgf
Database : SwissProt 2021_04 (565928 sequences; 204173280 residues)
Taxonomy : Viridiplantae (Green Plants) (40988 sequences)
Timestamp : 19 Jan 2022 at 11:22:19 GMT
Enzyme : Trypsin
Fixed modifications : Carbamidomethyl (C)
Variable modifications : Acetyl (N-term)
Mass values : Monoisotopic
Protein Mass : Unrestricted
Peptide Mass Tolerance : ± 5 ppm
Fragment Mass Tolerance : ± 5 ppm
Max Missed Cleavages : 1
Instrument type : Default
Number of queries : 8013
Protein hits : [AG01_ABRP7](#) Agglutinin-1 OS=Aborus precatorius OX=3816 GN=AAG PE=1 SV=1

8.	MS1_000001	Mass: 37	Score: 644	Method: MS2020	Sequences: 648	q-value: 0.35				
Apoptosis/Innate Immunity/OS0566 (Drosophila) P-191										
Query	Observed	Mod(s)	Mod(s)	ppm	Miss	Score	Expect	Rank	Uniqe	Peptide
2418	497.1899	732.3603	732.3603	-0.22	0	41	0.00011	1	0	K.SQVLA R 2418 2419 2420 2421 2422 2423 2424
2419	498.2081	970.3610	970.3611	0.58	0	54	3.9e-05	1	0	K.SQVLA R 2419 2420 2421 2422 2423 2424
2420	524.1287	1046.4829	1046.4832	0.71	0	79	9.4e-08	1	0	K.SQVLA R 2420 2421 2422 2423
2421	575.2548	1148.4946	1148.4945	0.06	0	32	0.00013	1	0	K.SQVLA R 2421 2422
2422	474.5109	1247.0233	1247.0231	-0.44	0	47	0.0005	1	0	K.SQVLA R 2422 2423
2423	495.2153	1247.0247	1247.0243	-0.45	0	133	0.00037	1	0	K.SQVLA R 2423 2424
2424	498.4214	1370.0282	1370.0286	-0.25	0	42	9.9e-05	1	0	K.SQVLA R 2424 2425 2426 2427
2425	467.0508	1370.0281	1370.0286	0.41	0	133	0.0005	1	0	K.SQVLA R 2425 2426

D Mascot Search Results

User : lzh
Email : cpulzh96@163.com
Search title : abrin a
MS data file : abrin_a.mgf
Database : SwissProt 2021_04 (565928 sequences; 204173280 residues)
Taxonomy : Viridiplantae (Green Plants) (40988 sequences)
Timestamp : 19 Jan 2022 at 11:29:10 GMT
Enzyme : Trypsin
Fixed modifications : Carbamidomethyl (C)
Variable modifications : Acetyl (N-term)
Mass values : Monoisotopic
Protein Mass : Unrestricted
Peptide Mass Tolerance : ± 5 ppm
Fragment Mass Tolerance : ± 5 ppm
Max Missed Cleavages : 1
Instrument type : Default
Number of queries : 8173
Protein hits : [AG01_ABRP7](#) Agglutinin-1 OS=Aborus precatorius OX=3816 GN=AAG PE=1 SV=1
[AB01_ABRP7](#) Abrin-b OS=Aborus precatorius OX=3816 PE=1 SV=1
[AB01_ABRP7](#) Abrin-a OS=Aborus precatorius OX=3816 PE=2 SV=1
[AB01_ABRP7](#) Abrin-b OS=Aborus precatorius OX=3816 PE=2 SV=1

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AB171		AB172 AB173		AB174 AB175		AB176 AB177		AB178 AB179		AB180 AB181		AB182 AB183		AB184 AB185		AB186 AB187		AB188 AB189		AB190 AB191		AB192 AB193		AB194 AB195		AB196 AB197		AB198 AB199		AB200 AB201		AB202 AB203		AB204 AB205		AB206 AB207		AB208 AB209		AB210 AB211		AB212 AB213		AB214 AB215		AB216 AB217		AB218 AB219		AB220 AB221		AB222 AB223		AB224 AB225		AB226 AB227		AB228 AB229		AB230 AB231		AB232 AB233		AB234 AB235		AB236 AB237		AB238 AB239		AB240 AB241		AB242 AB243		AB244 AB245		AB246 AB247		AB248 AB249		AB250 AB251		AB252 AB253		AB254 AB255		AB256 AB257		AB258 AB259		AB260 AB261		AB262 AB263		AB264 AB265		AB266 AB267		AB268 AB269		AB270 AB271		AB272 AB273		AB274 AB275		AB276 AB277		AB278 AB279		AB280 AB281		AB282 AB283		AB284 AB285		AB286 AB287		AB288 AB289		AB290 AB291		AB292 AB293		AB294 AB295		AB296 AB297		AB298 AB299		AB300 AB301		AB302 AB303		AB304 AB305		AB306 AB307		AB308 AB309		AB310 AB311		AB312 AB313		AB314 AB315		AB316 AB317		AB318 AB319		AB320 AB321		AB322 AB323		AB324 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AB633		AB634 AB635		AB636 AB637		AB638 AB639		AB640 AB641		AB642 AB643		AB644 AB645		AB646 AB647		AB648 AB649		AB650 AB651		AB652 AB653		AB654 AB655		AB656 AB657		AB658 AB659		AB660 AB661		AB662 AB663		AB664 AB665		AB666 AB667		AB668 AB669		AB670 AB671		AB672 AB673		AB674 AB675		AB676 AB677		AB678 AB679		AB680 AB681		AB682 AB683		AB684 AB685		AB686 AB687		AB688 AB689		AB690 AB691		AB692 AB693		AB694 AB695		AB696 AB697		AB698 AB699		AB700 AB701		AB702 AB703		AB704 AB705		AB706 AB707		AB708 AB709		AB710 AB711		AB712 AB713		AB714 AB715		AB716 AB717		AB718 AB719		AB720 AB721		AB722 AB723		AB724 AB725		AB726 AB727		AB728 AB729		AB730 AB731		AB732 AB733		AB734 AB735		AB736 AB737		AB738 AB739		AB740 AB741		AB742 AB743		AB744 AB745		AB746 AB747		AB748 AB749		AB750 AB751		AB752 AB753		AB754 AB755		AB756 AB757		AB758 AB759		AB760 AB761		AB762 AB763		AB764 AB765		AB766 AB767		AB768 AB769		AB770 AB771		AB772 AB773		AB774 AB775		AB776 AB777		AB778 AB779		AB780 AB781		AB782 AB783		AB784 AB785		AB786 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AB941		AB942 AB943		AB944 AB945		AB946 AB947		AB948 AB949		AB950 AB951		AB952 AB953		AB954 AB955		AB956 AB957		AB958 AB959		AB960 AB961		AB962 AB963		AB964 AB965		AB966 AB967		AB968 AB969		AB970 AB971		AB972 AB973		AB974 AB975		AB976 AB977		AB978 AB979		AB980 AB981		AB982 AB983		AB984 AB985		AB986 AB987		AB988 AB989		AB990 AB991		AB992 AB993		AB994 AB995		AB996 AB997		AB998 AB999		AB1000 AB1001		AB1002 AB1003		AB1004 AB1005		AB1006 AB1007		AB1008 AB1009		AB1010 AB1011		AB1012 AB1013		AB1014 AB1015		AB1016 AB1017		AB1018 AB1019		AB1020 AB1021		AB1022 AB1023		AB1024 AB1025		AB1026 AB1027		AB1028 AB1029		AB1030 AB1031		AB1032 AB1033		AB1034 AB1035		AB1036 AB1037		AB1038 AB1039		AB1040 AB1041		AB1042 AB1043		AB1044 AB1045		AB1046 AB1047		AB1048 AB1049		AB1050 AB1051		AB1052 AB1053		AB1054 AB1055		AB1056 AB1057		AB1058 AB1059		AB1060 AB1061		AB1062 AB1063		AB1064 AB1065		AB1066 AB1067		AB1068 AB1069		AB1070 AB1071		AB1072 AB1073		AB1074 AB1075		AB1076 AB1077		AB1078 AB1079		AB1080 AB1081		AB1082 AB1083		AB1084 AB1085		AB1086 AB1087		AB1088 AB1089		AB1090 AB1091		AB1092 AB1093		AB1094 AB1095		AB1096 AB1097		AB1098 AB1099		AB1100 AB1101		AB1102 AB1103		AB1104 AB1105		AB1106 AB1107		AB1108 AB1109		AB1110 AB1111		AB1112 AB1113		AB1114 AB1115		AB1116 AB1117		AB1118 AB1119		AB1120 AB1121		AB1122 AB1123		AB1124 AB1125		AB1126 AB1127		AB1128 AB1129		AB1130 AB1131		AB1132 AB1133		AB1134 AB1135		AB1136 AB1137		AB1138 AB1139		AB1140 AB1141		AB1142 AB1143		AB1144 AB1145		AB1146 AB1147		AB1148 AB1149		AB1150 AB1151		AB1152 AB1153		AB1154 AB1155		AB1156 AB1157		AB1158 AB1159		AB1160 AB1161		AB1162 AB1163		AB1164 AB1165		AB1166 AB1167		AB1168 AB1169		AB1170 AB1171		AB1172 AB1173		AB1174 AB1175		AB1176 AB1177		AB1178 AB1179		AB1180 AB1181		AB1182 AB1183		AB1184 AB1185		AB1186 AB1187		AB1188 AB1189		AB1190 AB1191		AB1192 AB1193		AB1194 AB1195		AB1196 AB1197		AB1198 AB1199		AB1200 AB1201		AB1202 AB1203		AB1204 AB1205		AB1206 AB1207		AB1208 AB1209		AB1210 AB1211		AB1212 AB1213		AB1214 AB1215		AB1216 AB1217		AB1218 AB1219		AB1220 AB1221		AB1222 AB1223		AB1224 AB1225		AB1226 AB1227		AB1228 AB1229		AB1230 AB1231		AB1232 AB1233		AB1234 AB1235		AB1236 AB1237		AB1238 AB1239		AB1240 AB1241		AB1242 AB1243		AB1244 AB1245		AB1246 AB1247		AB1248 AB1249		AB1250 AB1251		AB1252 AB1253		AB1254 AB1255		AB1256 AB1257		AB1258 AB1259		AB1260 AB1261		AB1262 AB1263		AB1264 AB1265		AB1266 AB1267		AB1268 AB1269		AB1270 AB1271		AB1272 AB1273		AB1274 AB1275		AB1276 AB1277		AB1278 AB1279		AB1280 AB1281		AB1282 AB1283		AB1284 AB1285		AB1286 AB1287		AB1288 AB1289		AB1290 AB1291		AB1292 AB1293		AB1294 AB1295		AB1296 AB1297		AB1298 AB1299		AB1300 AB1301		AB1302 AB1303		AB1304 AB1305		AB1306 AB1307		AB1308 AB1309		AB1310 AB1311		AB1312 AB1313		AB1314 AB1315		AB1316 AB1317		AB1318 AB1319		AB1320 AB1321		AB1322 AB1323		AB1324 AB1325		AB1326 AB1327		AB1328 AB1329		AB1330 AB1331		AB1332 AB1333		AB1334 AB1335		AB1336 AB1337		AB1338 AB1339		AB1340 AB1341		AB1342 AB1343		AB1344 AB1345		AB1346 AB1347		AB1348 AB1349		AB1350 AB1351		AB1352 AB1353		AB1354 AB1355		AB1356 AB1357		AB1358 AB1359		AB1360 AB1361		AB1362 AB1363		AB1364 AB1365		AB1366 AB1367		AB1368 AB1369		AB1370 AB1371		AB1372 AB1373		AB1374 AB1375		AB1376 AB1377		AB1378 AB1379		AB1380 AB1381		AB1382 AB1383		AB1384 AB1385		AB1386 AB1387		AB1388 AB1389		AB1390 AB1391		AB1392 AB1393		AB1394 AB1395		AB1396 AB1397		AB1398 AB1399		AB1400 AB1401		AB1402 AB1403		AB1404 AB1405		AB1406 AB1407		AB1408 AB1409		AB1410 AB1411		AB1412 AB1413		AB1414 AB1415		AB1416 AB1417		AB1418 AB1419		AB1420 AB1421		AB1422 AB1423		AB1424 AB1425		AB1426 AB1427		AB1428 AB1429		AB1430 AB1431		AB1432 AB1433		AB1434 AB1435		AB1436 AB1437		AB1438 AB1439		AB1440 AB1441		AB1442 AB1443		AB1444 AB1445		AB1446 AB1447		AB1448 AB1449		AB1450 AB1451		AB1452 AB1453		AB1454 AB1455		AB1456 AB1457		AB1458 AB1459		AB1460 AB1461		AB1462 AB1463		AB1464 AB1465		AB1466 AB1467		AB1468 AB1469		AB1470 AB1471		AB1472 AB1473		AB1474 AB1475		AB1476 AB1477		AB1478 AB1479		AB1480 AB1481		AB1482 AB1483		AB1484 AB1485		AB1486 AB1487		AB1488 AB1489		AB1490 AB1491		AB1492 AB1493		AB1494 AB1495		AB1496 AB1497		AB1498 AB1499	
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Rank	Accession	Mass	Protein	Score	Expect	Rank	Uniqe	Peptide
Search Results: 100								

Query	Observed	Mod(s)	Mod(s)	ppm	Miss	Score	Expect	Rank	Uniqe	Peptide
allow MS/MS tolerance 0.050000 GC-MS/MS 10000										
2454	302.1847	792.5049	792.5048	-0.00	0	29	0.0003	1	0	K.SQVLA R 2454 2455 2456 2457 2458 2459
2455	495.7469	875.0173	875.0168	0.76	0	36	0.0006	1	0	K.SQVLA R 2455 2456 2457 2458
2456	501.7697	1041.0319	1041.0343	0.54	0	44	0.00012	1	0	K.SQVLA R 2456 2457 2458 2459
2457	607.3430	1272.0715	1272.0714	-0.09	0	45	1.3e-07	1	0	K.SQVLA R 2457 2458 2459
2458	455.8558	1384.0335	1384.0334	0.13	0	47	7.9e-07	1	0	K.SQVLA R 2458 2459
2459	455.8558	1384.0335	1384.0334	-0.22	0	142	0.0003	1	0	K.SQVLA R 2459 2460
2460	455.8558	1384.0335	1384.0334	0.13	0	141	1.6e-06	1	0	K.SQVLA R 2460 2461
2461	515.0673	1563.0801	1563.0794	0.42	1	46	0.00019	1	0	K.SQVLA R 2461 2462
2462	764.0897	1562.7409	1562.7414	-0.31	0	43	0.0009	1	0	K.SQVLA R 2462 2463
2463	629.9792	1896.8126	1896.8122	-0.20	0	75	1.5e-07	1	0	K.SQVLA R 2463 2464
2464	654.4548	1986.8123	1986.8127	0.20	0	47	0.00013	1	0	K.SQVLA R 2464 2465
2465	662.8086	1986.7941	1986.7952	0.44	0	40	0.00011	1	0	K.SQVLA R 2465 2466
2466	743.0846	2145.0345	2145.0329	-0.19	0	48	0.00011	1	0	K.SQVLA R 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500