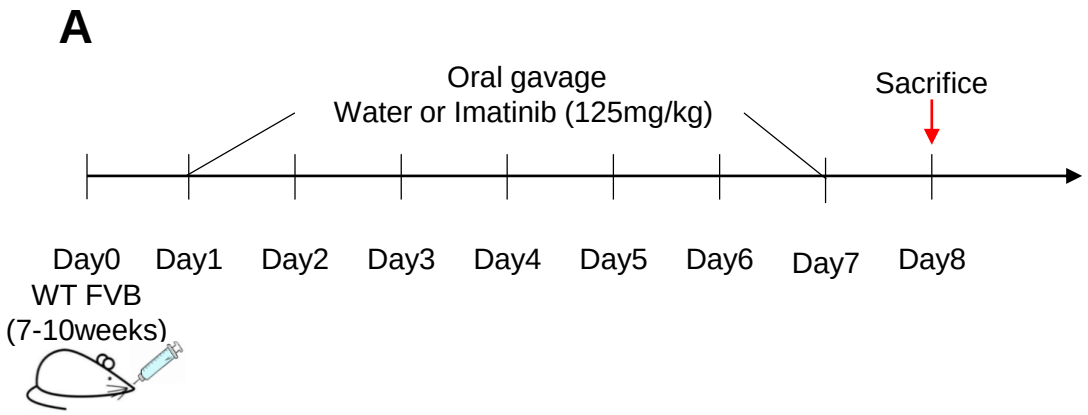
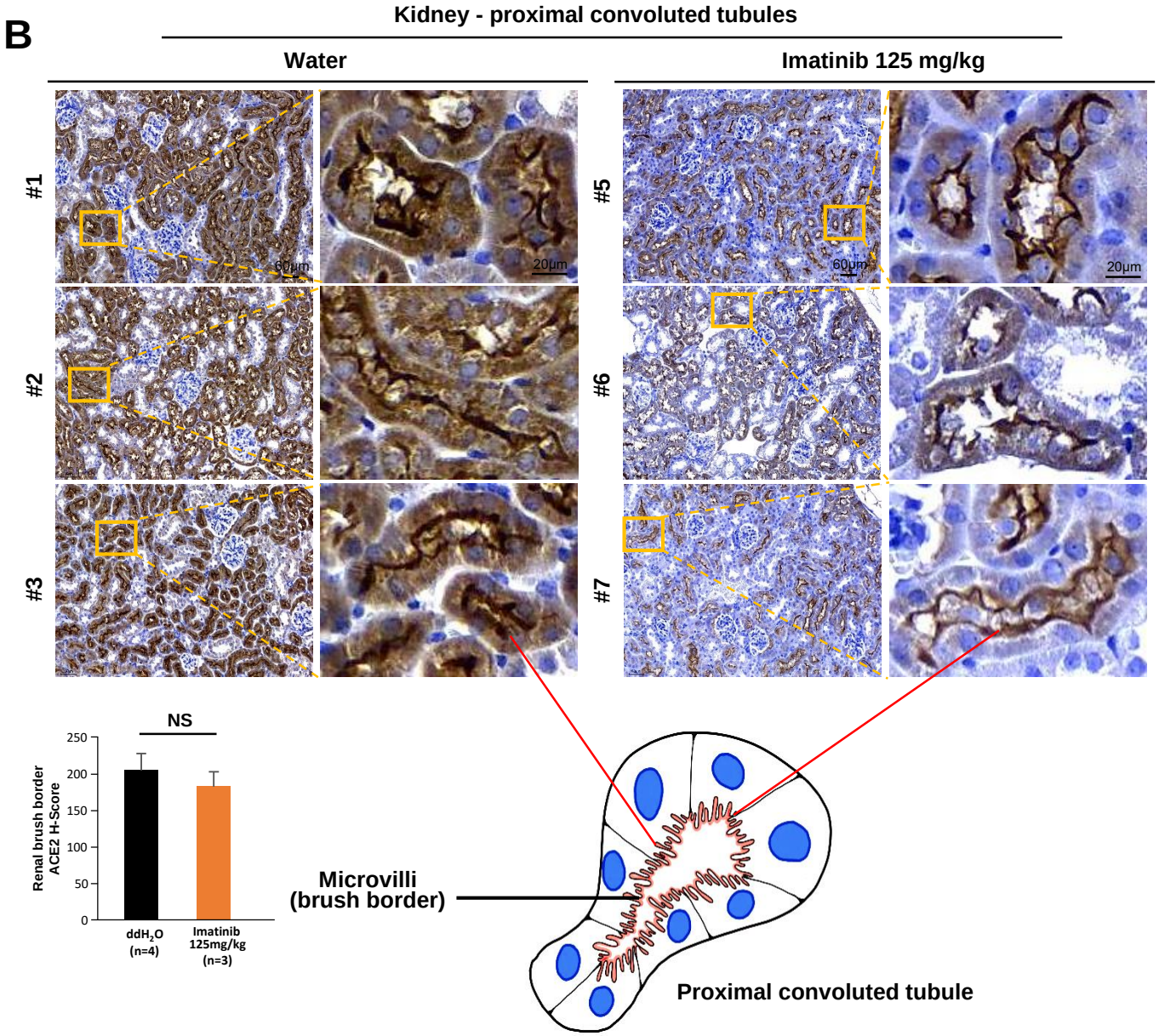
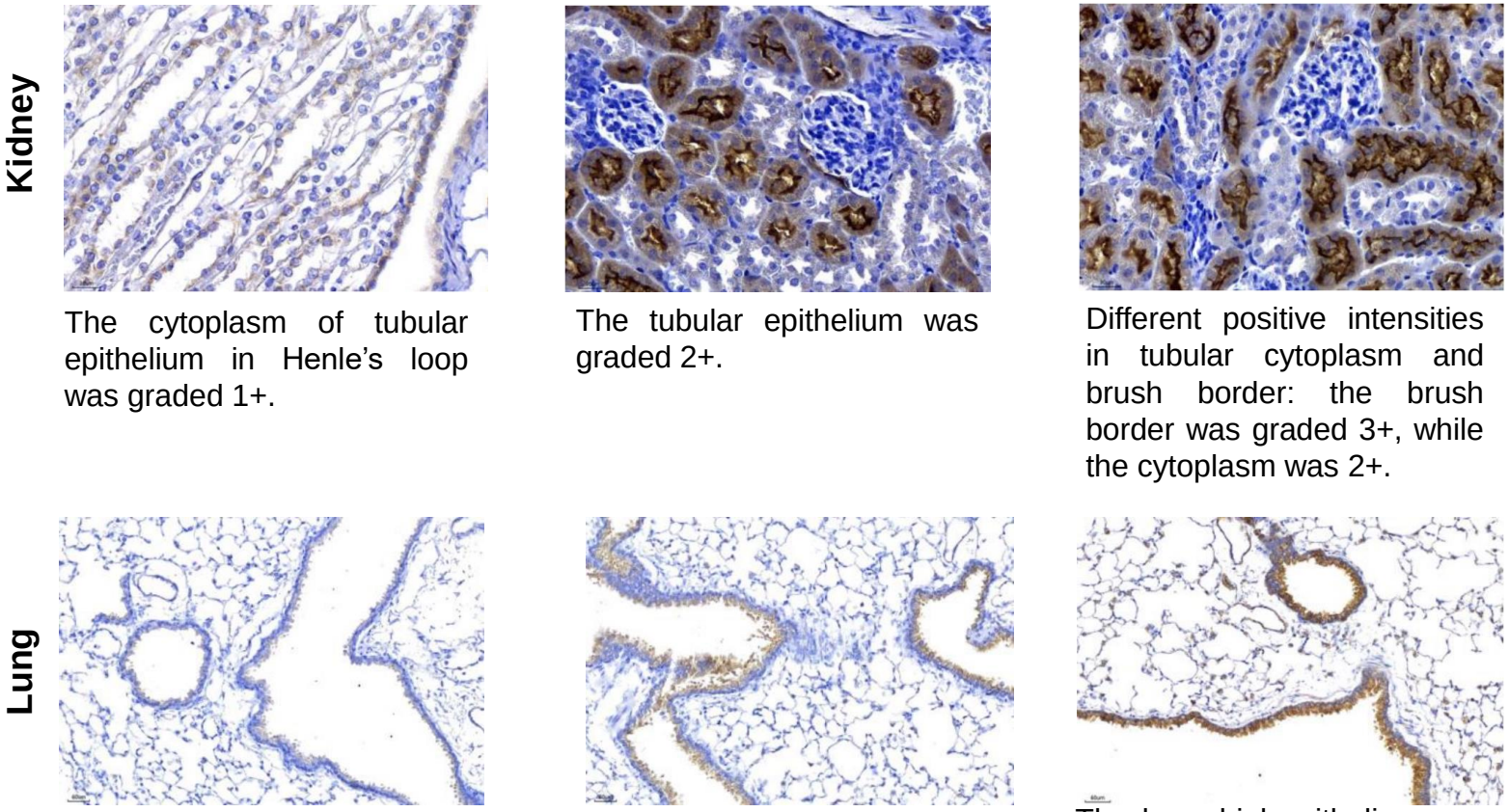




Supplementary Figure S1. Imatinib treatment did not alter the expression of ACE2 in the brush border of the kidneys. A, Schematic diagram of the treatment course. **B**, Kidney proximal convoluted tubules were stained for ACE2 as described in **Figure 5C**. The boxed areas are magnified to show the detail structures of the proximal convoluted tubules. ACE2 staining was assessed by Allred scoring and the data were plotted. Bars, standard deviation; Statistical significance was determined by Student's *t* test.



Supplementary Figure S2. Scoring criteria of IHC staining of ACE2 in the kidney and lung tissues. Examples of locations and intensities score are depicted. Only the bronchial epithelium was evaluated. For the detailed procedure and scoring method, refer to the Materials and methods section.

A

		Exp1		Exp2		Exp3	
		luc	renilla	luc	renilla	luc	renilla
ACE2 -1119	DMSO	48797	6248	38781	5123	63141	7873
	Gefitinib	67947	5873	69244	6342	90121	8653
	Erlotinib	47185	4326	83017	6782	130928	10214
	Imatinib	42582	6532	37696	6112	62298	9333
	Lapatinib	51114	5983	60153	8214	103229	12543
	Afatinib	23644	4287	45723	7512	70686	11098
pGL2	DMSO	1767	3212	3236	6471	4239	8653
	Gefitinib	2044	3672	2540	5871	4920	9712
	Erlotinib	1667	4902	2950	5325	3682	8321
	Imatinib	1994	3842	3207	6327	4737	9053
	Lapatinib	4301	5021	4088	6421	6653	9832
	Afatinib	1188	4523	2161	4852	3454	7543

B

Beas 2B	Exp1		Exp2		Exp3	
ACE2 -1119	luc	renilla	luc	Renilla	luc	renilla
DMSO	1502	2032	1245	2022	915	2025
Imatinib	1195	2378	1112	3150	1134	2827

C

HEK293T	Exp1		Exp2		Exp3	
	Ctrl (DMSO)	Imatinib	Ctrl (DMSO)	Imatinib	Ctrl (DMSO)	Imatinib
ACE2 (Ct value)	28.213	28.787	27.809	28.881	27.350	28.638
18s (Ct value)	10.476	10.607	10.460	10.332	10.564	11.791
Vero E6	**Exp1**		**Exp2**		**Exp3**	
	Ctrl (DMSO)	Imatinib	Ctrl (DMSO)	Imatinib	Ctrl (DMSO)	Imatinib
ACE2 (Ct value)	23.602	24.309	24.163	24.061	25.047	27.159
18s (Ct value)	12.905	12.631	13.498	11.887	14.020	15.654
MDA-MB-231	**Exp1**		**Exp2**		**Exp3**	
	Ctrl (DMSO)	Imatinib	Ctrl (DMSO)	Imatinib	Ctrl (DMSO)	Imatinib
ACE2 (Ct value)	33.379	34.790	32.790	33.653	33.087	34.179
18s (Ct value)	13.387	11.718	12.913	8.944	12.684	9.583
Calu-3	**Exp1**		**Exp2**		**Exp3**	
	Ctrl (DMSO)	Imatinib	Ctrl (DMSO)	Imatinib	Ctrl (DMSO)	Imatinib
ACE2 (Ct value)	30.847	28.791	28.172	30.385	28.971	25.483
18s (Ct value)	19.122	15.716	16.348	18.027	17.538	11.730

D

Vpp assay	Ctrl (DMSO)	Imatinib 1 uM	Imatinib 5 uM	Imatinib 10 uM
Exp1	2220	2264	1725	994
Exp2	2458	1008	1379	817
Exp3	1813	2280	1523	479
Viability assay	**Ctrl (DMSO)**	**Imatinib 1 uM**	**Imatinib 5 uM**	**Imatinib 10 uM**
Exp1	0.872	0.946	0.926	0.869
Exp2	0.875	1.014	0.915	0.916
Exp3	0.823	0.913	0.835	0.935

Supplementary Figure S3. Original data of luciferase, qRT-PCR, and Vpp assays. The data derived from Figure 1A (**A**), Figure 1C (**B**), Figure 2 (**C**), and Figure 4 (**D**) are shown. The data of three independent repeats (Exp 1, Exp 2, Exp 3) are shown.