

The Biorad dual color protein ladder was used in all western blot analyses (with the exception of the analysis of total S6RP protein)

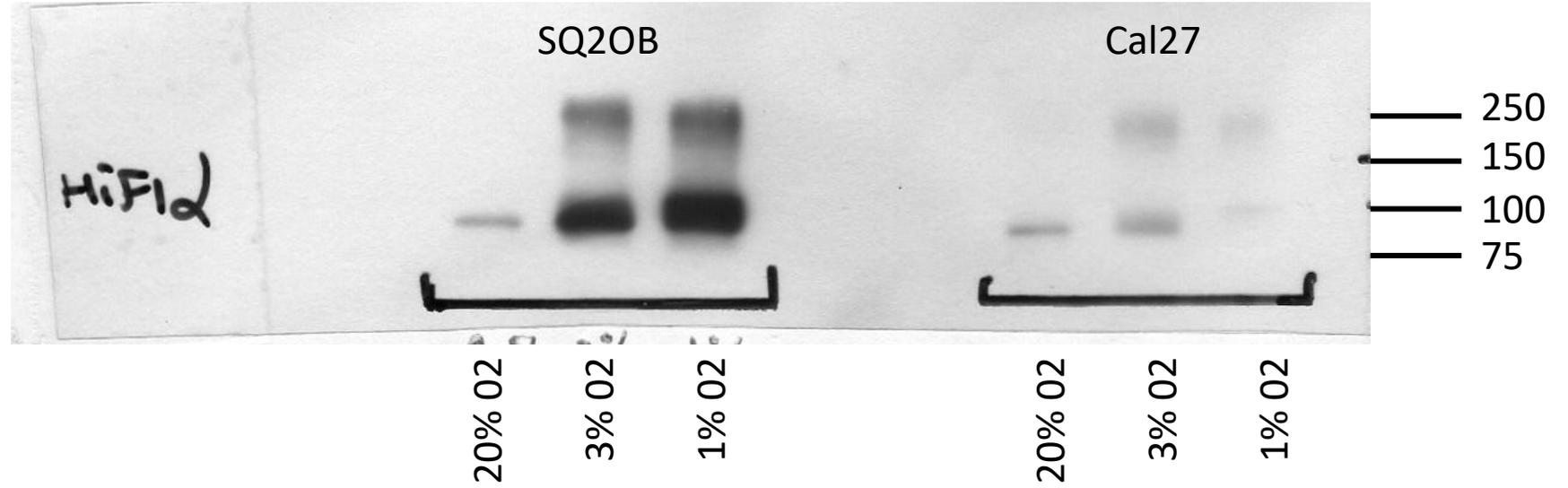
After protein transfer, membranes were cut under the level of the 75 kD band. Upper parts of the membranes (*i.e.* proteins with molecular weight > 75kD) were incubated with the anti-HIF-1 $\alpha$  or anti-HIF-2 $\alpha$  or anti-HIF $\beta$  antibodies. Lower parts of the membranes (*i.e.* proteins with molecular weight < 75kD) were incubated with anti-actin and anti-pS6RP antibodies.

Above image found at:

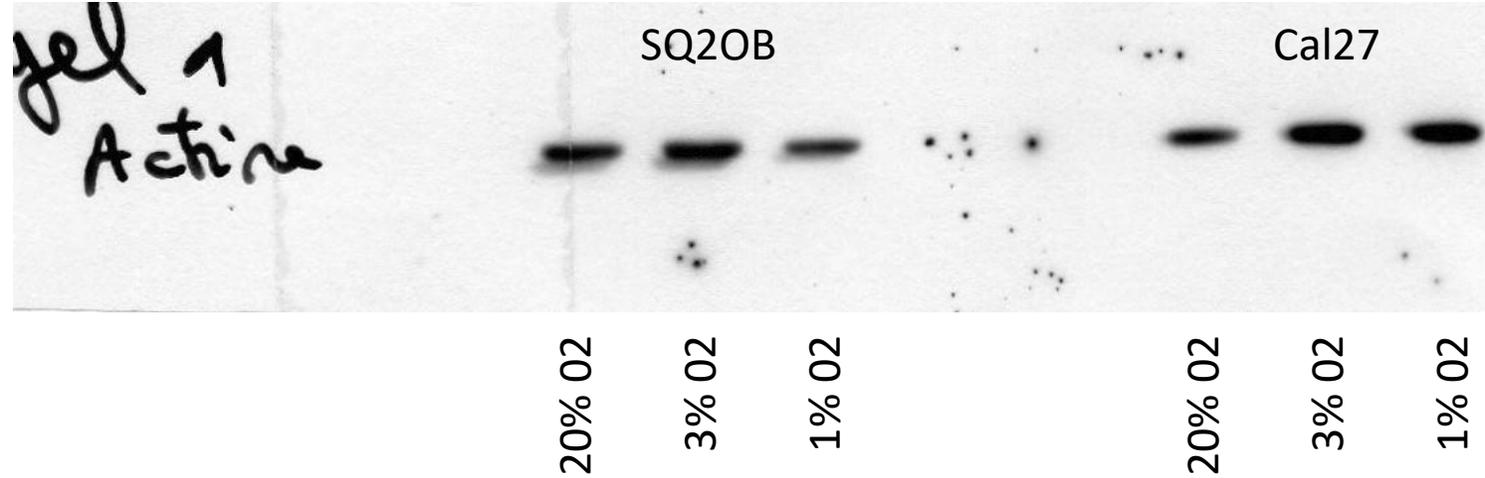
<https://www.labx.com/item/precision-plus-protein-dual-color-standards-500-181/4215091>

# Western blots Figure 2C

Blot probed with anti-HIF-1 $\alpha$  antibody



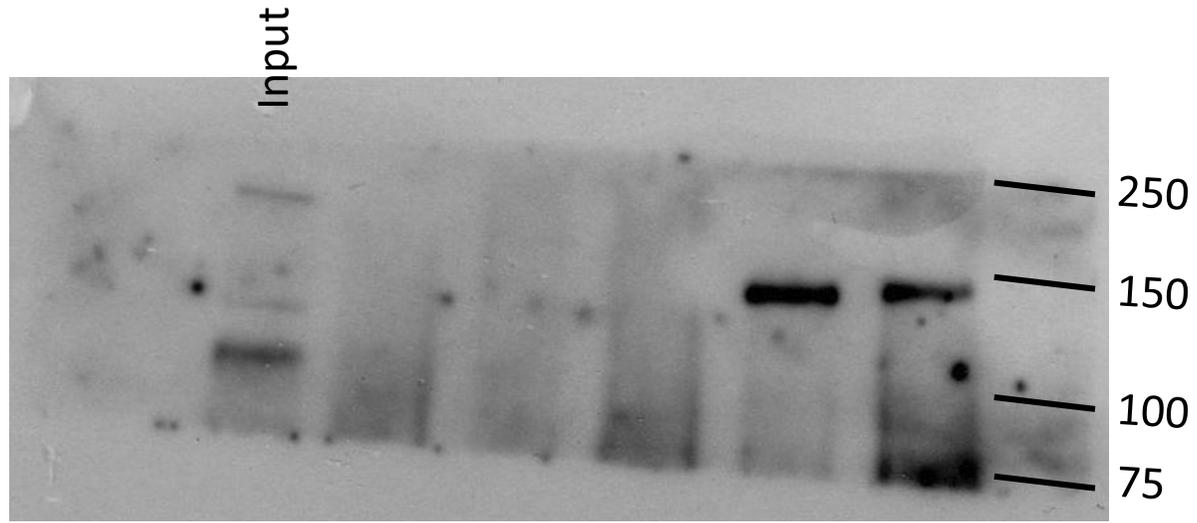
Blot probed with anti-actin antibody



Original blots were cut according to the molecular weight scale and incubated independently with anti-HIF-1 $\alpha$  and anti-actin antibodies

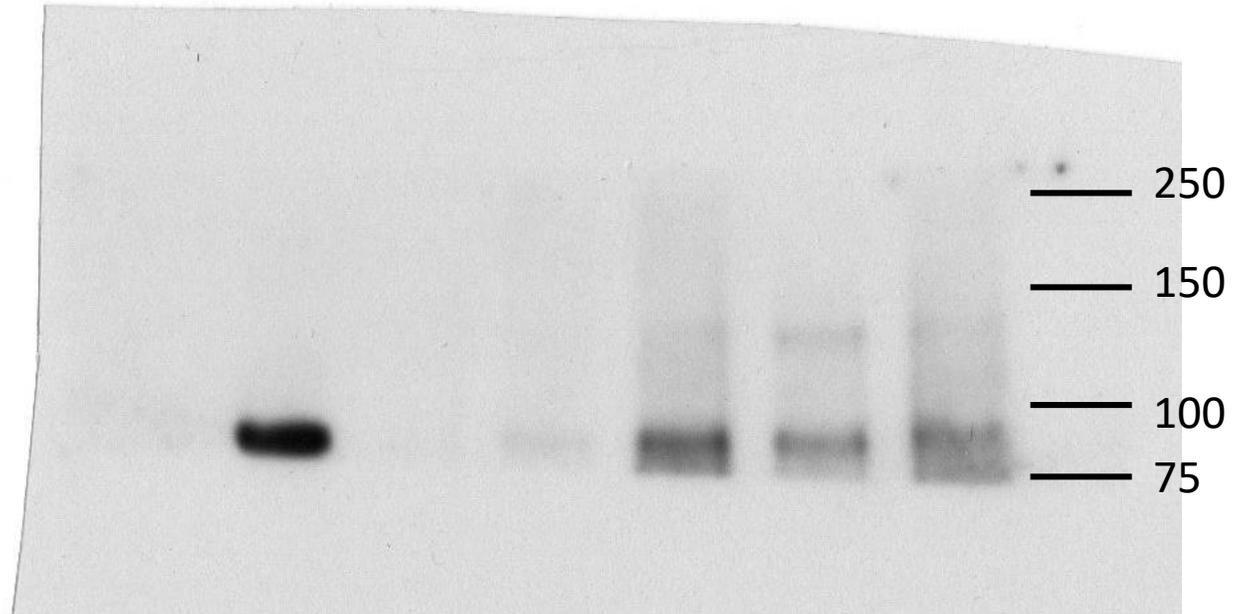
# Western blots Figure 3C

Blot probed with anti-HIF-2 $\alpha$  antibody



IP: anti-HIF- $\beta$	-	+	+	+	+
Rapamycin	-	-	+	-	+
Cetuximab	-	-	-	+	+

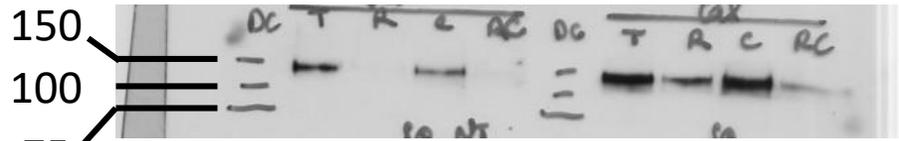
Blot probed with anti-HIF- $\beta$  antibody



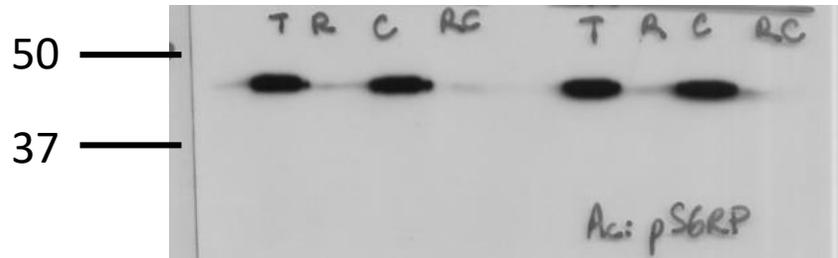
# Western blots Figure S1C– Cal27 cell line

Cal27 1%O2 24h

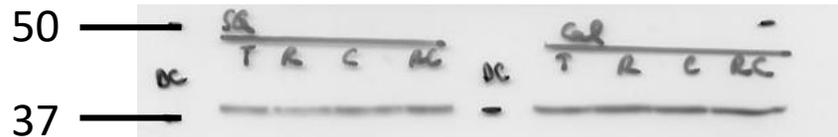
Rapamycin - + - +  
 Cetuximab - - + +



Blots probed with anti-HIF-1 $\alpha$  antibody



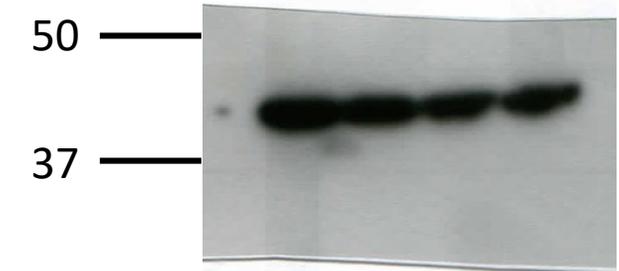
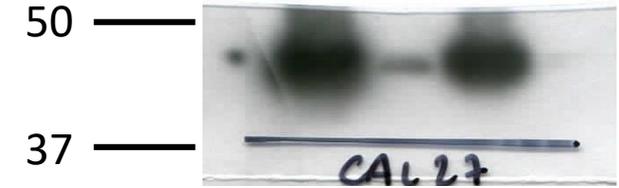
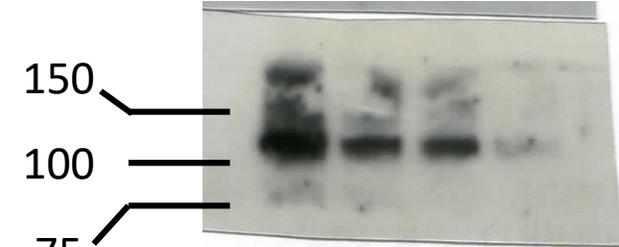
Blots probed with anti-pS6RP antibody



Blots probed with anti-actin antibody

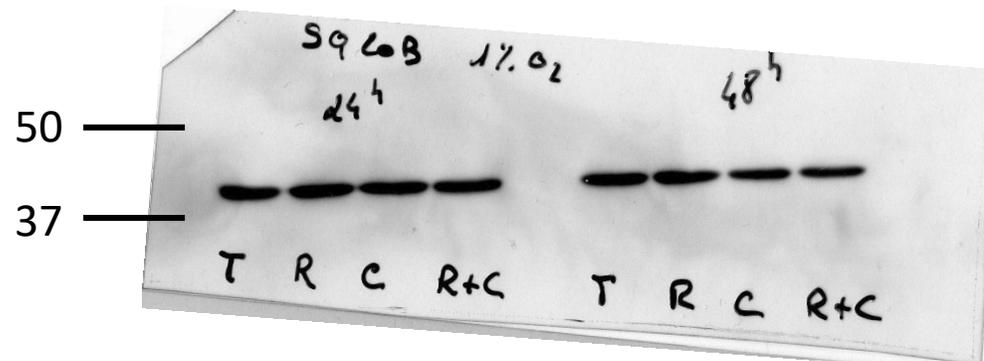
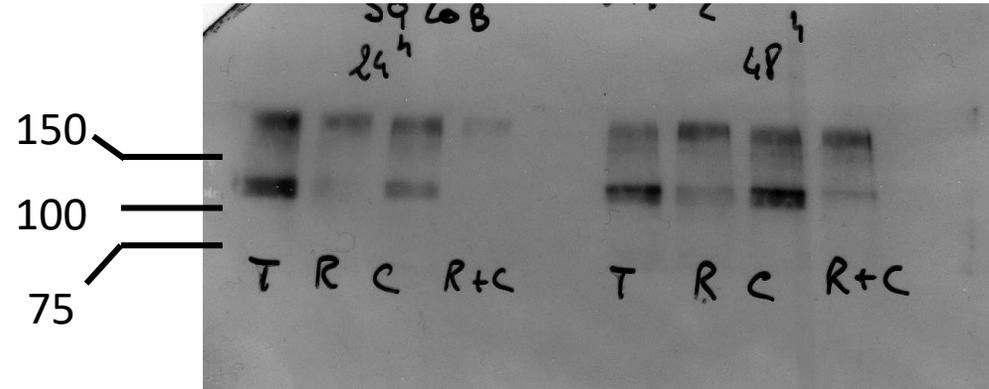
Cal27 1%O2 48h

Rapamycin - + - +  
 Cetuximab - - + +



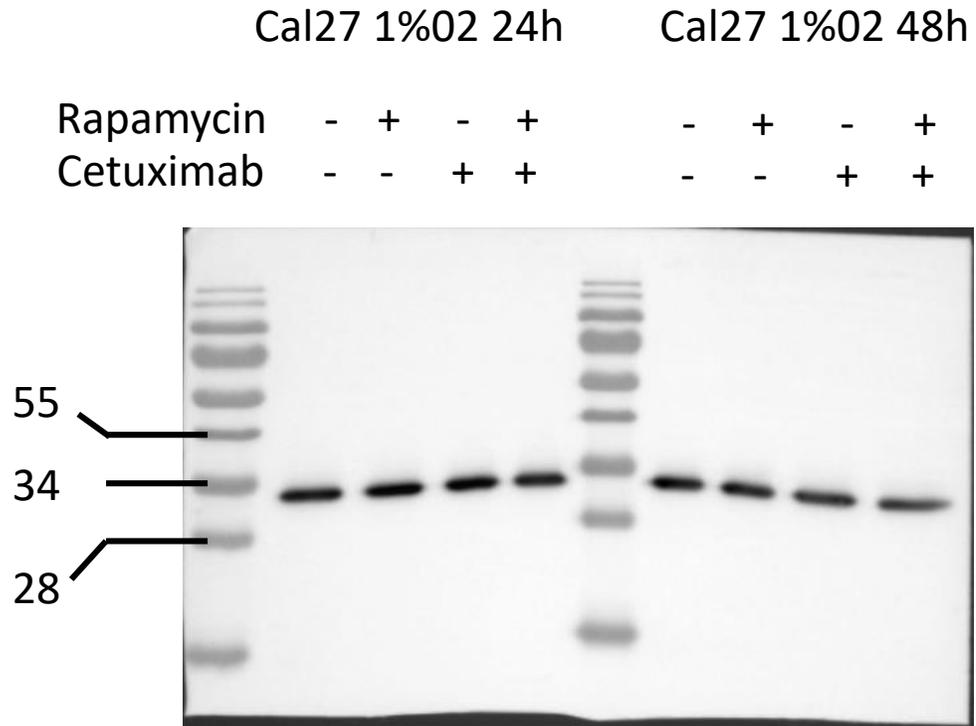
# Western blots Figure S1C– SQ20B cell line

	SQ20B 1%O <sub>2</sub> 24h				SQ20B 1%O <sub>2</sub> 48h			
Rapamycin	-	+	-	+	-	+	-	+
Cetuximab	-	-	+	+	-	-	+	+



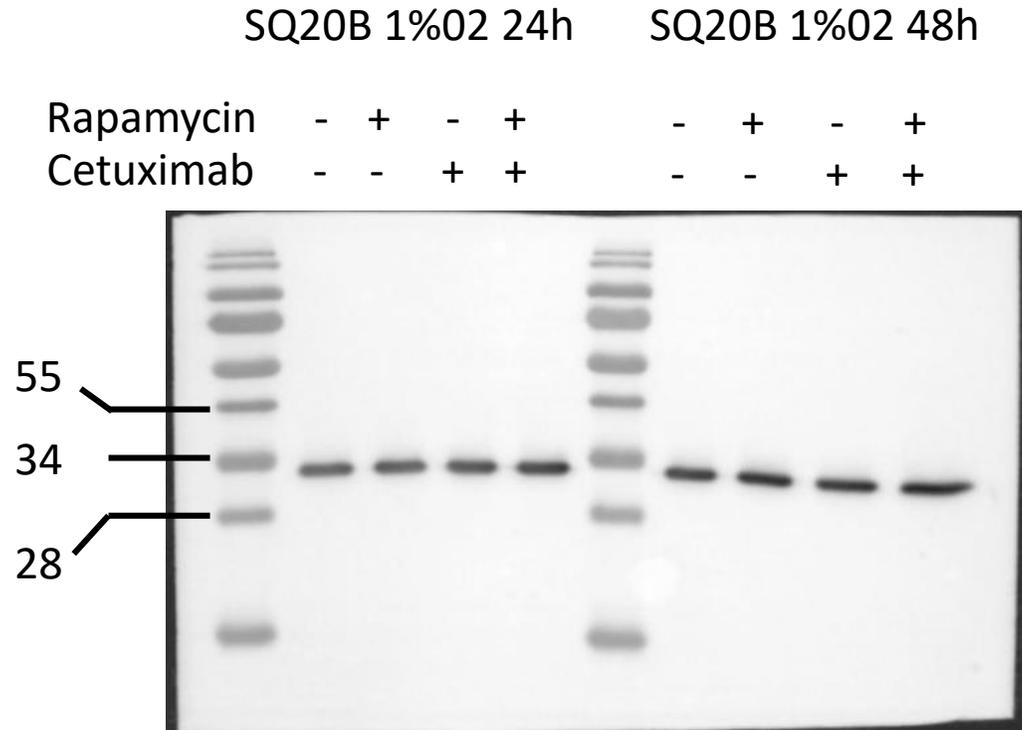
## Western blots Figure S1C– Cal27 cell line –S6RP antibody

During the review process, we performed Western blot analyses of whole protein extracts of SQ20B and Cal27 cells by probing membranes with an anti-total S6RP protein. We used the Protein Ladder Prestained (Euromedex) as a molecular weight marker.



# Western blots Figure S1C– SQ20B cell line –S6RP antibody

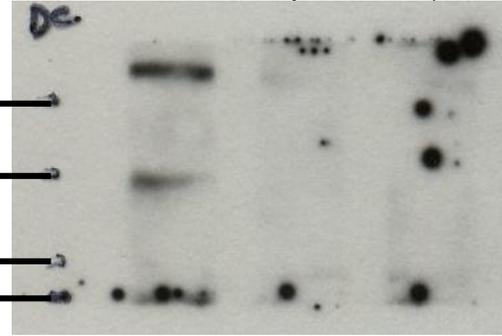
During the review process, we performed Western blot analyses of whole protein extracts of SQ20B and Cal27 cells by probing membranes with an anti-total S6RP protein. We used the Protein Ladder Prestained (Euromedex) as a molecular weight marker.



Western blots Figure S5B

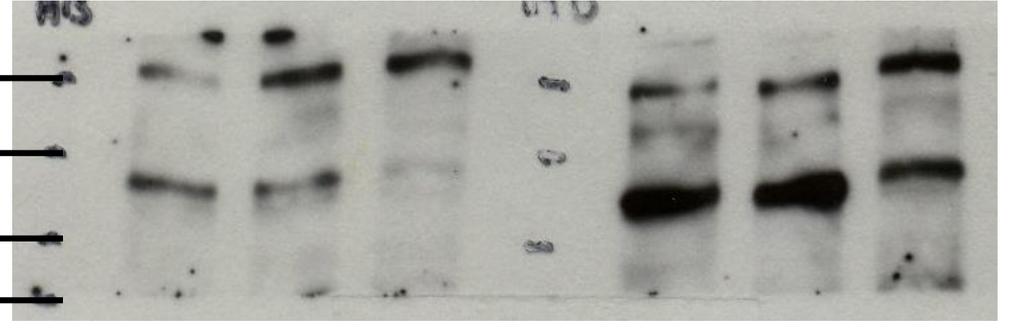
Blots probed with anti-HIF-2 $\alpha$  antibody

250  
150  
100  
75



Cal27

250  
150  
100  
75

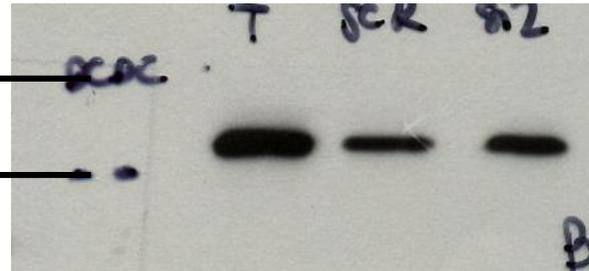


UD-SCC1

SQ2OB

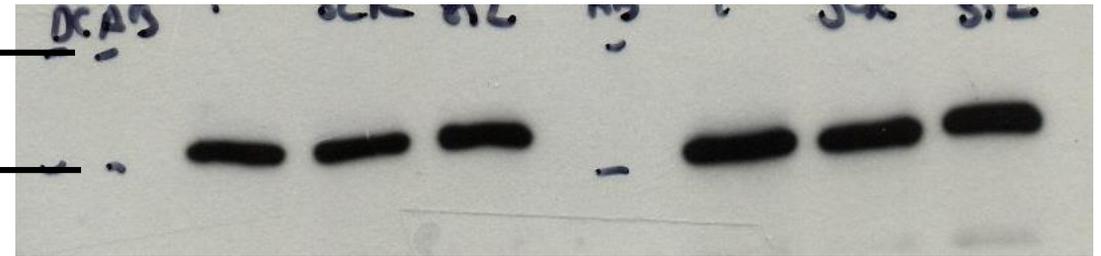
Blots probed with anti-actin antibody

50  
37



Cal27

50  
37



UD-SCC1

SQ2OB