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## Rab38 (D2V9Z) Rabbit mAb



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<b>Applications:</b> WB, IP	Reactivity: H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 23	Source/Isotype: Rabbit IgG	UniProt ID: #P57729	Entrez-Gene Id 23682
Product Usage Information	Ap	plication		Dilution		
	We	estern Blotting			1:1000	
	lmı	munoprecipitation			1:50	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		Rab38 (D2V9Z) Rabbit mAb recognizes endogenous levels of total Rab38 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu114 of human Rab38 protein.				
Background	and cau: map Ana an a in lu	Rab38 is a member of the Rab small G protein family and is mainly expressed in lung alveolar type II cells and melanocytes (1,2). In mice, the G146T Rab38 gene mutation results in loss of Rab38 function and causes abnormal pigmentation due to the loss of melanosomes (3). The Rab38 gene locus has been mapped to oculocutaneous albinism in Ruby rats, a model of human Hermansky-Pudlak Syndrome (4). Analysis of lung structure in the G146T mutation in mice and the Rab38 null mutation in rats also revealed an altered lung surfactant system with enlarged lamellar bodies in type II cells, indicating a role for Rab38 in lung function and development (5,6). Dysfunction mutation studies implicate Rab38 in the post-Golgi trafficking of enzymes (e.g. TYRP1) related to melanogenesis and stability (7,8).				
1. Jäger, D. et al. (2000) Cancer Res 60, 3584-91. 2. Osanai, K. et al. (2001) Am J Pathol 158, 1665-75. 3. Loftus, S.K. et al. (2002) Proc Natl Acad Sci USA 99, 4471-6. 4. Oiso, N. et al. (2004) Mamm Genome 15, 307-14. 5. Osanai, K. et al. (2008) Am J Pathol 173, 1265-74. 6. Osanai, K. et al. (2010) Am J Physiol Lung Cell Mol Physiol 298, L243-51. 7. Wasmeier, C. et al. (2006) J Cell Biol 175, 271-81. 8. Lopes, V.S. et al. (2007) Mol Biol Cell 18, 3914-27.						

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Bl

WB: Western Blotting IP: Immunoprecipitation

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

**GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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