12439 Store at -200

CD82 (D7G6H) Rabbit mAb



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Applications: WB, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 30-60	Source/Isotype: Rabbit IgG	UniProt ID: #P27701	Entrez-Gene Id: 3732	
Product Usage Information	Ap	Application			Dilution		
	We	stern Blotting			1:1000		
	lmr	nunohistochemistry	(Paraffin)		1:1200		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensit	ivity CD8	CD82 (D7G6H) recognizes endogenous levels of total CD82 protein.					
Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ile125 of human CD82 protein.						esponding to	
Background	one enzy the with pros cand supp mod	CD82 (KAI1) belongs to the tetraspanin family, which is characterized by four transmembrane domains, one short extracellular domain (ECL1), and one long extracellular domain (ECL2). CD82 does not have enzymatic activity and appears to function by regulating the trafficking of other proteins and organization of the cell membrane (1). CD82 was originally described as a costimulator for T cells that directly associates with CD4 and CD8, and was subsequently identified during a screen as a metastasis suppressor in prostate cancer (2,3). CD82 has since been found to act as a metastasis suppressor in a variety of cancers, and its downregulation is associated with poor prognosis in research studies (4-6). CD82 suppresses metastasis through multiple mechanisms including inhibition of cell motility and invasion by modulating c-Met and the urokinase plasminogen activator surface receptor (uPAR), as well as promotion of homotypic cell-cell adhesion by stabilizing interactions between E-cadherin and β -catenin (7-9).					

Background References

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- 2. Imai, T. et al. (1992) J Immunol 149, 2879-86.
- 3. Dong, J.T. et al. (1995) Science 268, 884-6.
- 4. Liu, F.S. et al. (2003) Clin Cancer Res 9, 1393-8.
- 5. Yang, X. et al. (2001) Cancer Res 61, 5284-8.
- 6. Lombardi, D.P. et al. (1999) Cancer Res 59, 5724-31.
- 7. Sridhar, S.C. and Miranti, C.K. (2006) Oncogene 25, 2367-78.
- 8. Bass, R. et al. (2005) J Biol Chem 280, 14811-8.
- 9. Abe, M. et al. (2008) Cancer Lett 266, 163-70.

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 BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IHC-P: Immunohistochemistry (Paraffin)

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key**

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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