CD82 Antibody	Cell Signaling TECHNOLOGY®		
Store at	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
#8854	Web:	info@cellsignal.com cellsignal.com	
8	3 Trask Lane Danvers Massachusetts 01923 USA		
For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 30-60	Source/Isotype: Rabbit	UniProt ID: #P27701	Entrez-Gene Id: 3732		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliguot the antibody.						
Specificity/Sensitivity		CD82 recognizes endogenous levels of total CD82 protein.						
Source / Purific	urce / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide correspondi residues surrounding Asn204 of human CD82 protein. Antibodies are purified by protein A and p affinity chromatography.							
Background		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 1. Tsai, Y.C. and Weissman, A.M. (2011) FEB. 2. Imai, T. et al. (1992) J Immunol 149, 2879 3. Dong, J.T. et al. (1995) Science 268, 884-6 4. Liu, F.S. et al. (2003) Clin Cancer Res 9, 13 5. Yang, X. et al. (2001) Cancer Res 61, 5284 6. Lombardi, D.P. et al. (1999) Cancer Res 59 7. Sridhar, S.C. and Miranti, C.K. (2006) Onco 8. Bass, R. et al. (2005) J Biol Chem 280, 148 9. Abe, M. et al. (2008) Cancer Lett 266, 163				79-86. -6. 1393-8. 34-8. 59, 5724-31. <i>cogene</i> 25, 2367-78. 4811-8.				
Species Reactiv	/ity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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 Ke	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human						
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