

CD82 (D7G6H) Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: F W, IHC-P	Reactivity:	Sensitivity: Endogenous	MW (kDa): 30-60	Source/Isotype: Rabbit IgG	UniProt ID: #P27701	Entrez-Gene Id: 3732
Product Usage Information		Application Western Blotting Immunohistochemistry (Paraffin)			Dilution 1:1000 1:1200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		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.				
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).				
1. Tsai, Y.C. and Weissman, A.M. (2011) FEBS Lett 585, 3166-73. 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 d	otorminad by tastin	n in at least one approve	ad application (o.g.	western blot)

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 \ and \ 1X \ blots \ and \ 2X \ blots \ and \ 3X \ blots \ and \$

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

Applications Key

W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: Human

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no

force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.