#





| 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: W, IP | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 68, 90 | Source/Isotype: Rabbit | UniProt ID: #O14672 | Entrez-Gene Id: 102 |
|------------------------------|---|--|--|--|---|---|
| Product Usage Information | 2 | Application Western Blotting Immunoprecipitation | | | Dilution 1:1000 1:50 | |
| 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 aliquot the antibody. | | | | |
| Specificity/Ser | ficity/Sensitivity ADAM10 Antibody recognizes endogenous levels of total ADAM10 protein, including the active, 68 kDa protein and the 90 kDa precursor chain. The antibody also recognizes a 35 kDa protein of unknown origin. | | | | the active, mature Da protein of | |
| Source / Purifi | cation | Polyclonal antibodies a residues near the carb and peptide affinity ch | are produced by im oxy terminus of hu romatography. | munizing animals with ıman ADAM10 protein. <i>i</i> | a synthetic peptide Antibodies are purif | corresponding to ied by protein A |
| Background | | Members of the ADAM influence cell signaling factors. This process in Conserved domains fo metalloprotease doma sequence, and a short The ADAM metallopep membrane-bound proi prodomain acts as a ch protein shedding throu o-secretase responsibl protein cleaves receptor regulatory functions ac demonstrate that loss cardiovascular develop of many types of cance increased cancer cell m <i>ADAM10</i> gene result in acropigmentation of K | I (a disintegrin and g and adhesion by s influences cell-extra und in most ADAN ain, a disintegrin do cytoplasmic tail (1, tidase domain 10 (teins targeted for i naperone that stab ugh inhibition of Al e for cleavage of N or tyrosine kinases cross related signa of ADAM10 results of ADAM10 results of and (9-11). Incre- er (i.e. gastric cance nigration, metastas a rare, autosomal itamura (15). | a metalloprotease) fam shedding cell surface pr cellular matrix (ECM) ad I family proteins include omain, a carboxy-termin (2). ADAM10) is a plasma m regulated intramembrar ilizes mature ADAM pro DAM10 proteinase activi lotch, APP, cadherins, ar and their associated lig ling pathways (8). Resea in defects in cortex forr ased ADAM10 protein es er, hepatocellular carcin- sis, and invasion (12-14) dominant pigmentation | ily of multidomain i oteins, such as cyto hesion and ECM rei a prodomain, a zin al cysteine-rich dor embrane proteinas he proteolysis (RIP). tein folding, and pr ty (3,4). Mature AD, id prion protein (5-7 ands and displays a rich studies using k nation, lymphocyte oprasion correlates prasion correlates pra, and brain glio Mutations in the con h disorder known as | membrane proteins kines and growth modeling. c-dependent nain, an EGF-like e that cleaves The ADAM10 events target- AM10 is the major 7). The ADAM10 a wide range of nockout mice development, and s with progression ma), due to orresponding s reticulate |
| Background R | eferences | 1. Turner, A.J. and Hoop 2. Edwards, D.R. et al. (3. Suh, J. et al. (2013) A 4. Moss, M.L. et al. (200 5. Hartmann, D. et al. (200 7. Reiss, K. et al. (2005) 8. Endres, K. et al. (2000) 9. Jorissen, E. et al. (200 10. Zhang, C. et al. (200 11. Gibb, D.R. et al. (201 12. Wang, Y.Y. et al. (201 13. Yuan, S. et al. (201 14. Bulstrode, H. et al. 15. Kono, M. et al. (201 | per, N.M. (1999) <i>Bio</i> (2008) <i>Mol Aspects</i> <i>leuron</i> 80, 385-401 07) <i>J Biol Chem</i> 282 2002) <i>Hum Mol Ge</i> 13) <i>Proc Natl Acad</i> <i>j EMBO J</i> 24, 742-52 9) <i>Neurobiol Dis</i> 30 10) <i>J Neurosci</i> 30, 4 10) <i>Dev Dyn</i> 239, 2 11) <i>Mol Immunol</i> 4 01) <i>J Surg Oncol</i> 10 3) <i>Oncol Rep</i> 30, 17 (2012) <i>Cancer Lett</i> 3) <i>Hum Mol Genet</i> | Dechem Soc Trans 27, 255 Med 29, 258-89. 2, 35712-21. 2, 1, 2615-24. 5, 233-41. 833-44. 594-602. 18, 1319-27. 03, 116-23. 15-22. 326, 79-87. 22, 3524-33. | -9. | |

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 | W: Western Blotting IP: Immunoprecipitation |
| 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. |