| e at -20C | CD13/APN (E1Y7U) Rabbit mAb | | Cell Signaling | |
|-----------|-----------------------------|---------------------------|--|--|
| Store at | | Orders: | 877-616-CELL (2355) orders@cellsignal.com | |
| 721 | | Support: | 877-678-TECH (8324) | |
| 137 | | Web: | info@cellsignal.com cellsignal.com | |
| # | 3- | Trask Lane Danvers Ma | assachusetts 01923 USA | |

| For Research Use Only | y. Not for Use in Diagnostic Procedures. | |
|-----------------------|---|--|
| I OF RESCALCT OSC OTH | y. Not for 03c in Diagnostic i roccuares. | |

| Applications: WB | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 140-160 | Source/Isotype: Rabbit IgG | UniProt ID: #P15144 | Entrez-Gene Id: 290 | | |
|------------------------------|----------------------|--|--|---|------------------------|------------------------|--|--|
| Product Usage Information | - | oplication estern Blotting | | | Dilution 1:1000 | | | |
| 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 / Sensi | tivity CD | CD13/APN (E1Y7U) Rabbit mAb recognizes endogenous levels of total CD13/APN protein. | | | | | | |
| Source / Purificati | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg90 of human CD13/APN protein. | | | | | | |
| Background | | Aminopeptidase N (APN, CD13) is a widely expressed, membrane-bound proteolytic enzyme that breaks down peptides during digestion, cleaves cell surface antigens during antigen presentation, and acts as a receptor for human viruses, including several coronaviruses. This multifunctional protein is implicated in the regulation of many biological processes, including angiogenesis, cell proliferation, cell migration, inflammation and immune response (1,2). APN was originally identified as the cell surface antigen CD13, which is expressed in myeloid lineage hematopoietic cells and myeloid leukemia (3). Identified substrates of aminopeptidase N include the angiotensin I-III peptide hormones, the opioid peptide met-enkephalin, and cytokines MCP-1 and MIP-1 (4). Abnormal APN protein expression is seen in various forms of cancer, with high APN expression associated with poor survival in colon cancer and non-small cell lung cancer and silenced APN expression related to poor prognosis in prostate cancer (5-7). | | | | | | |
| Background References | | uan, Y. and Xu, W. J Mina-Osorio, P. (200 .ook, A.T. et al. (198 Bauvois, B. (2004) C Hashida, H. et al. (20 Tokuhara, T. et al. (20 Gørensen, K.D. et al. | 8) Trends Mol Me 9) J Clin Invest 83 Incogene 23, 317 102) Gastroenterc 006) Clin Cancer | d 14, 361-71. 3, 1299-307. -329. Ilogy 122, 376-86. Res 12, 3971-8. | | | | |
| Species Reactivity | y Spe | Species reactivity is determined by testing in at least one approved application (e.g., western blot). | | | | | | |
| Western Blot Buff | er IMP milk | 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 | WB: Western Blotting | | | | | | |
| Cross-Reactivity I | X : X | 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 | | | | | | |
| Trademarks and Patents | All o | 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 | follo conc | 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. | | | | | | |

CD13/APN (E1Y7U) Rabbit mAb (#13721) Datasheet Without Images Cell Signaling Technology

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.