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Product datasheet for TA305977

ADAM10 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, WB
Recommended Dilution:	WB: 1 µg/mL; IHC: 2 µg/mL; IF: 10 µg/mL. Antibody validated: Western Blot in human, mouse and rat samples; Immunofluorescence in human, mouse and rat samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	ADAM10 antibody was raised against a peptide corresponding to amino acids 732 to 748 of human ADAM10. This sequence is identical to those of bovine and rat origins and differs from that of mouse ADAM10 by one amino acid (2,4).
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1ug/ul
Purification:	ADAM10 Antibody is Protein A purified.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	ADAM metallopeptidase domain 10
Database Link:	NP_001101 Entrez Gene 11487 MouseEntrez Gene 29650 RatEntrez Gene 102 Human O14672

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Background: Proinflammatory cytokine tumor necrosis factor-alpha (TNF-alpha) contributes to a variety of inflammatory responses and programmed cell death. Notch receptor and its ligand participate in cell fate decisions during vertebrate development and are associated with several human disorders, including a T-cell lymphoma. TNF-alpha, notch and its ligand delta are all membrane-bond molecules, which are cleaved by proteases to release mature proteins or functional receptor. ADAM10, a metalloprotease-disintegrin in the family of mammalian ADAM (for a disintegrin and metalloprotease), was recently identified to cleave TNF-alpha, notch and its ligand delta (1-3). The genes encoding human, mouse, and bovine ADAM10 were recently cloned and designated ADAM 10, kuzbanian (KUZ), and MADM, respectively, (1,2,4). ADAM10 mRNA is expressed in a variety of human and bovine tissues (1,4).

Synonyms: AD10; AD18; CD156c; HsT18717; kuz; MADM; RAK

Protein Families: Druggable Genome, Protease, Transmembrane

Protein Pathways: Alzheimer's disease, Epithelial cell signaling in Helicobacter pylori infection