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ADAM28 Rabbit pAb

Catalog # AP97339

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9UKQ2
Other Accession	Q9UKQ2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	87148
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ADAM28
Epitope Specificity	521-620/775
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 disintegrin domain.Contains 1 EGF-like domain.Contains 1 peptidase M12B domain.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ADAM28 was first described in lymphocytes, also in Thymic Endothelial Cells (TECADAM), as well as in the epididymus. Later works describe two forms of ADAM28: ADAM28-S and ADAM28-L (short and long forms). The short form is a soluble, alternatively spliced form lacking the transmembrane and cytoplasmic domains. Message levels of the short form were found to be much lower than the long form in the tissues studied, but these may be tissue-specific differences. In humans, ADAM28 is reported in lymphocytes by some authors and to be absent from mature lymphocytes by others. The thyroid, lung, trachea, esophagus, and stomach have been shown to express human ADAM28 message. Knockout mice lacking B cells and T cells express ADAM28 message in the thyroid, lung, trachea, esophagus, and stomach. A member of the metalloproteinase family containing disintegrin-like domains (ADAMs) the functions of ADAM28 are still poorly understood. ADAM28 contains the canonical HExxHxxxxxH zinc metalloproteinase motif, and has been shown to be proteolytically active. Other ADAMs family members (ADAM10, ADAM17) have been more thoroughly studied and are known to play key roles in inflammation, growth factor maturation and release, and a wide range of other functions. The full length ADAM28 (ADAM28 Long) sequence codes for a 775 amino acid protein with a predicted mass is 87.2 kDa, and a pI of 6.50. The soluble ADAM28 (ADAM-28 Short) is a 540 amino acid sequence, with a predicted mass of 61.3 kDa, and a pI of 6.58. Other forms of ADAM28 have been reported with slightly different carboxyterminal regions. ADAM28 may play a role in the adhesive and proteolytic events that occur during lymphocyte emigration or may function in ectodomain shedding of lymphocyte surface target proteins, such as FASL and CD40L. It may be involved in sperm maturation. There are 2 isoforms of ADAM28: one short secreted and one long membrane bound.

Additional Information

Gene ID	10863
Other Names	ADAM 28; MDC-L; MDCL; eMDC II; eMDCII; ADA28_HUMAN; ADAM28; Epididymal metalloproteinase-like, disintegrin-like, and cysteine-rich protein II (eMDC II); Metalloproteinase-like, disintegrin-like, and cysteine-rich protein L (MDC-L); 3.4.24.-; ADAM23; ADAM metallopeptidase domain 28; a disintegrin and metalloproteinase domain 28
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	ADAM28
Synonyms	ADAM23, MDCL
Function	May play a role in the adhesive and proteolytic events that occur during lymphocyte emigration or may function in ectodomain shedding of lymphocyte surface target proteins, such as FASL and CD40L. May be involved in sperm maturation.
Cellular Location	[Isoform 1]: Cell membrane; Single-pass type I membrane protein
Tissue Location	Expressed predominantly in secondary lymphoid tissues, such as lymph node, spleen, small intestine, stomach, colon, appendix and trachea. The lymphocyte population is responsible for expression of this protein in these tissues. Isoform 2 is expressed preferentially in spleen

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.