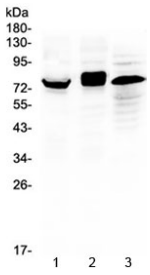
ADAM17 Antibody / TACE (R32847)

Catalog No.	Formulation	Size
R32847	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
UniProt	P78536
Applications	Western Blot : 0.5-1ug/ml Direct ELISA (recombinant Human Protein) : 0.1-0.5ug/ml (BSA-free format available)
Limitations	This ADAM17 antibody is available for research use only.



Western blot testing of 1) mouse thymus, 2) human HeLa and 3) human placenta lysate with ADAM17 antibody at 0.5ug/ml. Expected molecular weight: 80-130 kDa depending on level of glycosylation.

Description

ADAM17 (ADAM metallopeptidase domain 17), also called TACE (tumor necrosis factor-alpha-converting enzyme), is an enzyme that belongs to the ADAM protein family of disintegrins and metalloproteases. Expression studies showed that the encoded protein cleaves precursor tumor necrosis factor-alpha to its mature form. Northern blot analysis revealed that the gene was expressed as a 5-kb mRNA in all tissues examined. ADAM17 is understood to be involved in the processing of tumor necrosis factor alpha (TNF-?) at the surface of the cell, and from within theintracellular membranes of the trans-Golgi network. This process, which is also known as 'shedding', involves the cleavage and release of a soluble

ectodomain from membrane-bound pro-proteins (such as pro-TNF-alpha), and is of known physiological importance. ADAM17 was the first 'sheddase' to be identified, and is also understood to play a role in the release of a diverse variety of membrane-anchored cytokines, cell adhesion molecules,receptors, ligands, and enzymes.

Application Notes

Optimal dilution of the ADAM17 antibody should be determined by the researcher.

Immunogen

A recombinant human protein corresponding to amino acids R215-Y433 was used as the immunogen for the ADAM17 antibody.

Storage

After reconstitution, the ADAM17 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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