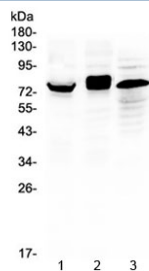


## ADAM17 Antibody / TACE (R32847)

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

**Bulk quote request**

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA, 0.025% sodium azide
<b>UniProt</b>	P78536
<b>Applications</b>	Western Blot : 0.5-1ug/ml Direct ELISA (recombinant Human Protein) : 0.1-0.5ug/ml (BSA-free format available)
<b>Limitations</b>	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 the intracellular 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 'shedase' 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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.