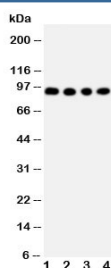


ADAM17 Antibody (R30942)

Catalog No.	Formulation	Size
R30942	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
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P78536
Applications	Western Blot : 0.5-1ug/ml
Limitations	This ADAM17 antibody is available for research use only.



Western blot testing of ADAM17 antibody and Lane 1: human placenta; 2: HeLa; 3: PANC; 4: 293T cell lysate. Expected molecular weight: 80-130KD depending on level of glycosylation

Description

ADAM metalloproteinase domain 17, also called TACE (Tumor necrosis factor- α -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- α 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 α (TNF- α) 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- α), 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

The stated application concentrations are suggested starting amounts. Titration of the ADAM17 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human ADAM17 (AASFKLQRQNRVDSKETEC) was used as the immunogen for this 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.