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TACE Antibody
Purified Rabbit Polyclonal Antibody
Catalog # ABV11515

Specification

TACE Antibody - Product Information

Application	**WB**
Primary Accession	P78536
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**93021**

TACE Antibody - Additional Information

Gene ID 6868

Other Names
TACE, CD156b, Disintegrin and metalloproteinase domain-containing protein 17; ADAM 17; TNF-alpha-converting enzyme; TNF-alpha convertase; Snake venom-like protease

Target/Specificity
TACE/ADAM17

Formulation
100 µg (0.5 mg/ml) peptide affinity purified rabbit anti-TACE polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA, 0.02% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Background Descriptions

Precautions
TACE Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

TACE Antibody - Protein Information

Name ADAM17

Synonyms CSVP, TACE

Function
Cleaves the membrane-bound precursor of TNF-alpha to its mature soluble form (PubMed:9034191). Responsible for the proteolytical release of soluble JAM3 from endothelial cells surface (PubMed:<a

href="http://www.uniprot.org/citations/20592283" target="_blank">20592283). Responsible for the proteolytic release of several other cell-surface proteins, including p75 TNF-receptor, interleukin 1 receptor type II, p55 TNF-receptor, transforming growth factor-alpha, L-selectin, growth hormone receptor, MUC1 and the amyloid precursor protein (PubMed:12441351). Acts as an activator of Notch pathway by mediating cleavage of Notch, generating the membrane-associated intermediate fragment called Notch extracellular truncation (NEXT) (PubMed:24226769). Plays a role in the proteolytic processing of ACE2 (PubMed:24227843). Plays a role in hemostasis through shedding of GP1BA, the platelet glycoprotein Ib alpha chain (By similarity). Mediates the proteolytic cleavage of LAG3, leading to release the secreted form of LAG3 (By similarity). Mediates the proteolytic cleavage of IL6R, leading to the release of secreted form of IL6R (PubMed:26876177, PubMed:28060820). Mediates the proteolytic cleavage and shedding of FCGR3A upon NK cell stimulation, a mechanism that allows for increased NK cell motility and detachment from opsonized target cells.

Cellular Location
Membrane; Single-pass type I membrane protein.

Tissue Location
Ubiquitously expressed. Expressed at highest levels in adult heart, placenta, skeletal muscle, pancreas, spleen, thymus, prostate, testes, ovary and small intestine, and in fetal brain, lung, liver and kidney. Expressed in natural killer cells (at protein level) (PubMed:24337742).

TACE Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TACE Antibody - Images

TACE Antibody - Background

Tumor necrosis factor-α (TNF-α) is a proinflammatory cytokine and contributes to a variety of inflammatory disease responses and programmed cell death. TNF-α is synthesized as a 26K type II membrane-bound precursor that is cleaved by a convertase to generate secreted 17K mature TNF-α. TNF-α converting enzyme (TACE) protein was recently purified and the human and mouse TACE cDNAs were cloned by several groups separately. TACE is a membrane-bond metalloprotease-disintegrin in the family of mammalian ADAM (for a disintegrin and metalloprotease). TACE also processes other cell surface proteins, including TNF receptor, TGF-α, L-selectin adhesion molecule, and alpha-cleavage of amyloid protein precursor (APP). TACE mRNA is expressed in a variety of human and murine tissues.