

Anti-ADAM17/Tace Rabbit Monoclonal Antibody
Catalog # ABO13866

Specification

Anti-ADAM17/Tace Rabbit Monoclonal Antibody - Product Information

Application	WB, IF, ICC, IP, FC
Primary Accession	P78536
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Format	Liquid

Description

Anti-ADAM17/Tace Rabbit Monoclonal Antibody . Tested in WB, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

Anti-ADAM17/Tace Rabbit Monoclonal Antibody - Additional Information

Gene ID 6868

Other Names

Disintegrin and metalloproteinase domain-containing protein 17, ADAM 17, 3.4.24.86, Snake venom-like protease, TNF-alpha convertase, TNF-alpha-converting enzyme, CD156b, ADAM17, CSVP, TACE

Calculated MW

93021 MW KDa

Application Details

WB 1:500-1:2000
ICC/IF 1:50-1:200
IP 1:50
FC 1:100

Subcellular Localization

Membrane; Single-pass type I membrane protein.

Tissue Specificity

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.

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human ADAM17

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-ADAM17/Tace Rabbit Monoclonal Antibody - Protein Information

Name ADAM17 ([HGNC:195](#))

Synonyms CSVP, TACE

Function

Transmembrane metalloprotease which mediates the ectodomain shedding of a myriad of transmembrane proteins including adhesion proteins, growth factor precursors and cytokines important for inflammation and immunity (PubMed:[24226769](http://www.uniprot.org/citations/24226769), PubMed:[24227843](http://www.uniprot.org/citations/24227843), PubMed:[28060820](http://www.uniprot.org/citations/28060820), PubMed:[28923481](http://www.uniprot.org/citations/28923481)). Cleaves the membrane-bound precursor of TNF-alpha to its mature soluble form (PubMed:[9034191](http://www.uniprot.org/citations/9034191), PubMed:[36078095](http://www.uniprot.org/citations/36078095)). Responsible for the proteolytical release of soluble JAM3 from endothelial cells surface (PubMed:[20592283](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/24226769)). Plays a role in the proteolytic processing of ACE2 (PubMed:[24227843](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/26876177) target="_blank">26876177, PubMed:[28060820](http://www.uniprot.org/citations/28060820) target="_blank">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. Cleaves TREM2, resulting in shedding of the TREM2 ectodomain (PubMed:[28923481](http://www.uniprot.org/citations/28923481) target="_blank">28923481).

Cellular Location

Cell membrane; Single-pass type I membrane protein

Tissue Location

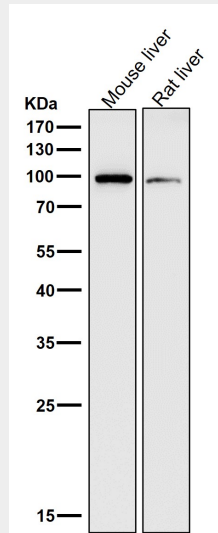
Ubiquitously expressed. Expressed at highest levels in adult heart, placenta, skeletal muscle, pancreas, spleen, thymus, prostate, testes, ovary and small intestine, and in fetal brain, lung, liver and kidney. Expressed in natural killer cells (at protein level) (PubMed:24337742).

Anti-ADAM17/Tace Rabbit Monoclonal Antibody - Protocols

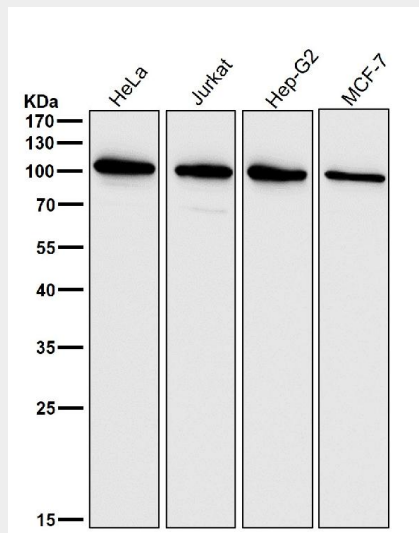
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

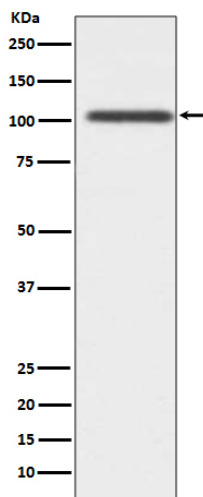
Anti-ADAM17/Tace Rabbit Monoclonal Antibody - Images



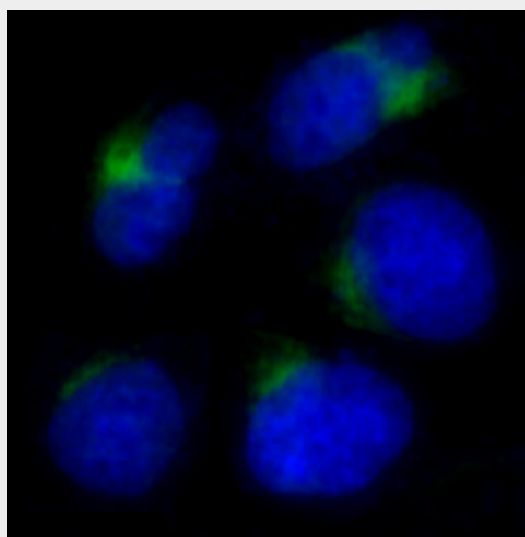
All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.



Western blot analysis of ADAM17 expression in HeLa cell lysate.



Immunofluorescent analysis of HeLa cells, using ADAM17 Antibody.