ARG54323
anti-ADAM17 / TACE antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ADAM17 / TACE
Tested Reactivity	Hu
Tested Application	ICC/IF, WB
Specificity	This antibody recognizes human, mouse, and rat TACE, and 80-130kDa bands are detected in immunoblots. These bands may represent mature protein, precursor, and glycosylated TACE.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ADAM17 / TACE
Species	Human
Immunogen	Peptide corresponding to aa 807-823 of human TACE (accession no. NP_003174). This sequence differs from mouse and rat TACE by one amino acid.
Conjugation	Un-conjugated
Alternate Names	CD antigen CD156b; TNF-alpha convertase; NISBD; ADAM 17; Disintegrin and metalloproteinase domain-containing protein 17; Snake venom-like protease; TACE; NISBD1; ADAM18; EC 3.4.24.86; CSVP; CD156B; TNF-alpha-converting enzyme

Application Instructions

Application table

Application	Dilution
ICC/IF	Assay-dependent
WB	Assay-dependent

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: HeLa and Jurkat

Properties

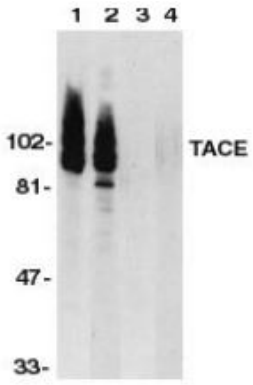
Form	Liquid
Purification	Immunoaffinity chroma-tography
Buffer	PBS (pH 7.4) and 0.02% Sodium azide
Preservative	0.02% Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

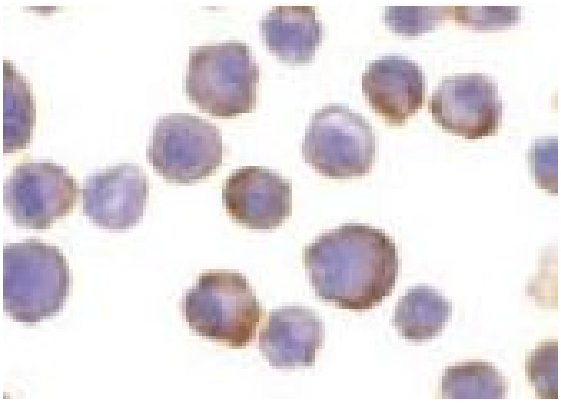
Database links	GeneID: 6868 Human Swiss-port # P78536 Human
Gene Symbol	ADAM17
Gene Full Name	ADAM metallopeptidase domain 17
Background	TNF is synthesized as a 26kDa type II membrane-bound precursor that is cleaved by a convertase to generate secreted 17kDa mature TNF . TNF converting enzyme (TACE) has been identified, and human and mouse TACE cDNAs have been cloned. TACE is a membrane-bound metalloprotease-disintegrin in the family of mammalian ADAM (for a disintegrin and metalloprotease). TACE also processes other cell surface proteins, including TNF receptor, TGF , L-selectin, and alpha-cleavage of amyloid protein precursor (APP). TACE mRNA is expressed in a variety of human and mouse tissues.
Function	Cleaves the membrane-bound precursor of TNF-alpha to its mature soluble form. Responsible for the proteolytical release of soluble JAM3 from endothelial cells surface. 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. Acts as an activator of Notch pathway by mediating cleavage of Notch, generating the membrane-associated intermediate fragment called Notch extracellular truncation (NEXT). Plays a role in the proteolytic processing of ACE2. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Developmental Biology antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody
Calculated Mw	93 kDa
PTM	The precursor is cleaved by a furin endopeptidase. Phosphorylated. Stimulation by growth factor or phorbol 12-myristate 13-acetate induces phosphorylation of Ser-819 but decreases phosphorylation of Ser-791. Phosphorylation at THR-735 by MAPK14 is required for ADAM17-mediated ectodomain shedding.

Images



ARG54323 anti-ADAM17 / TACE antibody WB image

Western blot: 1:HeLa; 2:Jurkat; 3:HeLa in the presence of blocking peptide; 4:Jurkat in the presence of blocking peptide stained with ARG54323 anti-ADAM17 / TACE antibody at 1 µg/ml dilution.



ARG54323 anti-ADAM17 / TACE antibody ICC/IF image

HeLa stained with ARG54323 anti-ADAM17 / TACE antibody at 10 µg/ml dilution.