

ARG43454 anti-ADAM17 / TACE antibody

Package: 100 µl
Store at: -20°C

Summary

| | |
|---------------------|---|
| Product Description | Rabbit Polyclonal antibody recognizes ADAM17 / TACE |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | ICC/IF, IHC-P, 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 | A synthetic peptide corresponding to a sequence within amino acids 700 to the C-terminus of human ADAM17 / TACE (NP_003174.3). |
| 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 | 1:50 - 1:200 |
| | IHC-P | 1:50 - 1:200 |
| | WB | 1:500 - 1:2000 |
| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. | |
| Positive Control | HepG2 and mouse heart | |
| Observed Size | ~110 kDa (full length), ~90 kDa (mature) | |

Properties

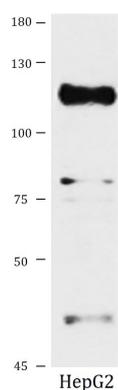
| | |
|--------------|--|
| Form | Liquid |
| Purification | Affinity purified. |
| Buffer | PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |

| | |
|---------------------|---|
| Stabilizer | 50% Glycerol |
| 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. 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

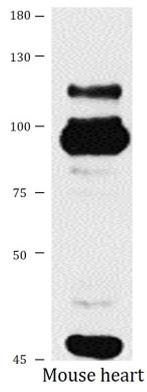
| | |
|----------------|---|
| Gene Symbol | ADAM17 |
| Gene Full Name | ADAM metallopeptidase domain 17 |
| Background | TNF is synthesized as a 26kDa type II membrane-bound precursor that is cleaved by a convertase to generate secreted 17kDa mature TNF . TNF converting enzyme (TACE) has been identified, 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 (isoform 1) |
| 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



ARG43454 anti-ADAM17 / TACE antibody WB image

Western blot: 25 µg of HepG2 cell lysate stained with ARG43454 anti-ADAM17 / TACE antibody at 1:1000 dilution.



ARG43454 anti-ADAM17 / TACE antibody WB image

Western blot: 25 µg of Mouse heart lysate stained with ARG43454 anti-ADAM17 / TACE antibody at 1:1000 dilution.