

## 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

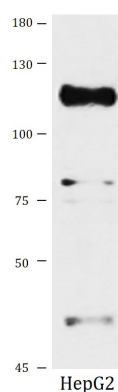
Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide

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

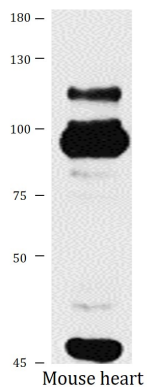
Gene Symbol	ADAM17
Gene Full Name	ADAM metalloproteinase domain 17
Background	TNF is synthesized as a 26kDa type II membrane-bound precursor that is cleaved by a convertase to generate secreted 17kDa mature TNF . TNF converting enzyme (TACE) has been identified, and human and mouse TACE cDNAs have been 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 proteolytic 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.