

ARG54334 anti-ADAM10 / KUZ / MADM antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ADAM10 / KUZ / MADM
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, WB
Specificity	This antibody recognizes human, mouse, and rat ADAM10. A band of 85kDa is detected in immunoblots and may represent precursor. Lower mw bands are detected in some cell lines, including Jurkat, and may represent the processed mature protein.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ADAM10 / KUZ / MADM
Species	Human
Immunogen	Peptide corresponding to aa 732-748 of human ADAM10. This sequence is identical to those of bovine and rat and differs from mouse by one amino acid
Conjugation	Un-conjugated
Alternate Names	Kuzbanian protein homolog; kuz; HsT18717; MADM; RAK; EC 3.4.24.81; ADAM 10; AD18; CDw156; Mammalian disintegrin-metalloprotease; CD antigen CD156c; AD10; Disintegrin and metalloproteinase domain-containing protein 10; CD156c

Application Instructions

Application table	Application	Dilution
	ICC/IF	20 µg/mL
	IHC-P	20 µg/mL
	WB	1-2 µg/mL
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Jurkat and K562	

Properties

Form	Liquid
Purification	Protein A purified.
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

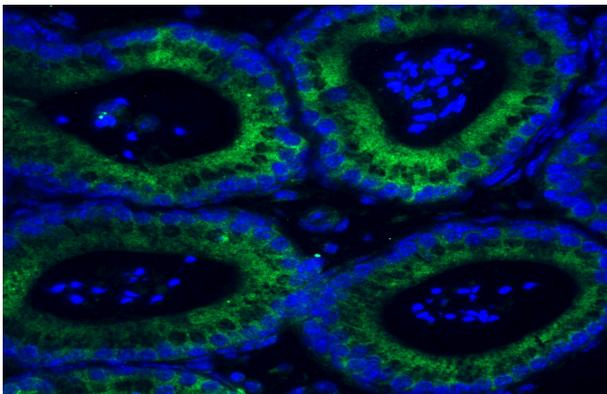
and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

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

Bioinformation

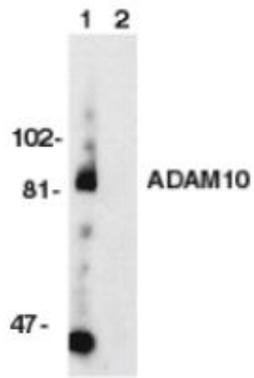
Database links	GeneID: 102 Human GeneID: 11487 Mouse Swiss-port # O14672 Human Swiss-port # O35598 Mouse
Gene Symbol	ADAM10
Gene Full Name	ADAM metallopeptidase domain 10
Background	TNF , Notch and its ligand delta are all membrane-bound molecules which are cleaved by proteases to release mature proteins or functional receptors. ADAM10, a metalloprotease-disintegrin in the family of mammalian ADAM (for a disintegrin and metalloprotease) was recently found to cleave TNF , Notch and its ligand delta. The genes encoding human, mouse, and bovine ADAM10 have been cloned and designated ADAM10, Kuzbanian (KUZ), and MADM, respectively. These genes are expressed in a variety of human and bovine tissues.
Function	Cleaves the membrane-bound precursor of TNF-alpha at '76-Ala- -Val-77' 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 heparin-binding epidermal growth-like factor, ephrin-A2 and for constitutive and regulated alpha-secretase cleavage of amyloid precursor protein (APP). Contributes to the normal cleavage of the cellular prion protein. Involved in the cleavage of the adhesion molecule L1 at the cell surface and in released membrane vesicles, suggesting a vesicle-based protease activity. Controls also the proteolytic processing of Notch and mediates lateral inhibition during neurogenesis. Responsible for the FasL ectodomain shedding and for the generation of the remnant ADAM10-processed FasL (FasL APL) transmembrane form. Also cleaves the ectodomain of the integral membrane proteins CORIN and ITM2B. May regulate the EFNA5-EPHA3 signaling. [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Cell Death antibody; Signaling Transduction antibody
Calculated Mw	84 kDa
PTM	The precursor is cleaved by a furin endopeptidase.

Images



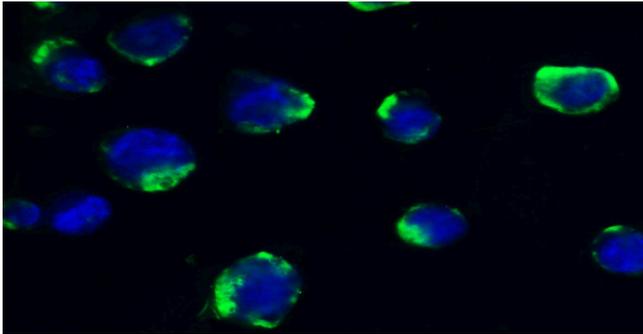
ARG54334 anti-ADAM10 / KUZ / MADM antibody IHC image

Immunofluorescence: Mouse Testis stained with ARG54334 anti-ADAM10 / KUZ / MADM antibody at 20 µg/ml dilution.



ARG54334 anti-ADAM10 / KUZ / MADM antibody WB image

Western blot: Jurkat stained with ARG54334 anti-ADAM10 / KUZ / MADM antibody at 1 µg/ml dilution.



ARG54334 anti-ADAM10 / KUZ / MADM antibody ICC/IF image

Immunofluorescence: K562 stained with ARG54334 anti-ADAM10 / KUZ / MADM antibody at 20 µg/ml dilution.