

Datasheet for 200-401-949

ADAM10 Antibody**Overview**

Description:	Anti-ADAM10 (RABBIT) Antibody - 200-401-949
Item No.:	200-401-949
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Proinflammatory cytokine tumor necrosis factor- α (TNF- α) contributes to a variety of inflammatory responses and programmed cell death. Notch receptor and its ligand participate in cell fate decisions during vertebrate development and are associated with several human disorders, including a T-cell lymphoma. TNF- α , notch, and its ligand delta, are all membrane-bound molecules, which are cleaved by proteases to release mature proteins or functional receptor. ADAM10, a metalloprotease-disintegrin in the family of mammalian ADAM (for a disintegrin and metalloprotease), was recently identified to cleave TNF- α , notch and its ligand delta. The genes encoding human, mouse, and bovine ADAM10 were recently cloned and designated ADAM 10, kuzbanian (KUZ) and MADM, respectively. ADAM10 mRNA is expressed in a variety of human and bovine tissues. Anti-ADAM10 is ideal for investigators involved in NF-kappaB, Apoptosis, Cytokins and Growth factor research.
Synonyms:	A disintegrin and metalloprotease domain 10 antibody, A Disintegrin And Metalloproteinase Domain 10 antibody, ADAM 10 antibody, ADAM metalloproteinase domain 10 antibody, CD 156c antibody, KUZ, MADM
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ADAM10
Reactivity:	Human

Immunogen Type:	Conjugated Peptide
Immunogen:	This IgG fraction antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to a region near the carboxy terminus of human ADAM10 protein.
Purity/Specificity:	ADAM10 is Protein A purified. The product is affinity chromatography purified via peptide column. A BLAST analysis was used to suggest cross-reactivity with ADAM10 protein from human, bovine and rat based on 100% homology with the immunizing sequence. Partial reactivity is expected against ADAM10 from mouse based on a single amino acid change relative to this sequence. Reactivity against homologues from other sources is not known.
Relevant Links:	• NCBI - 4557251 • UniProtKB - O14672 • GeneID - 102

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	ADAM10 antibody has been tested for use in ELISA, immunohistochemistry, IF/ICC, and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 84 kDa in size corresponding to ADAM10 protein by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
IF:	1:250 - 1:1,000
IHC:	1:100-1:800
WB:	1:500 to 1:2000

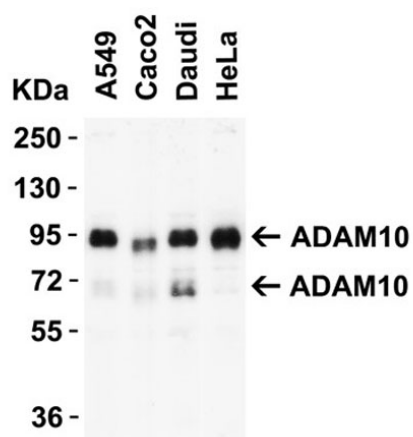
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

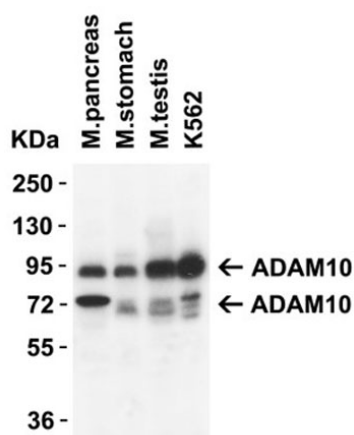
Western Blot of ADAM10.

Load: 15µg of human cell line lysates.

Primary Antibody: ADAM10 at 1µg/mL for 1 h incubation at RT in 5% NFDm/TBST.

Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

Observed: detected both precursor ADAM10 (94kD) and mature ADAM10 (68kD).



Western Blot

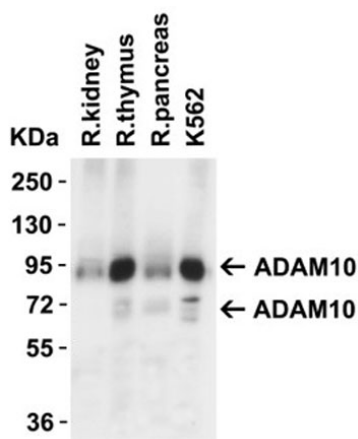
Western Blot of ADAM10.

Load: 15 µg of mouse lysates per lane.

Primary Antibody: ADAM10 at 1 µg/mL for 1h incubation at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

Observed: detected both precursor ADAM10 (94kD) and mature ADAM10 (68kD).



Western Blot

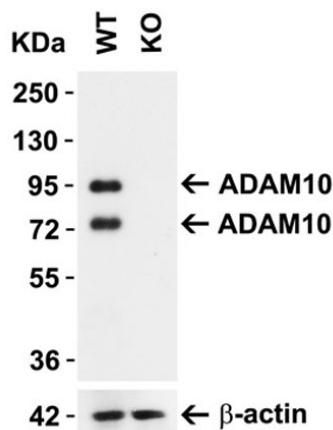
Western Blot of ADAM10.

Load: 15 μ g of rat tissue lysates per lane.

Primary Antibody: ADAM10 at 1 μ g/mL for 1h incubation at RT in 5% NFDm/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

Observed: detected both precursor ADAM10 (94kD) and mature ADAM10 (68kD).



Western Blot

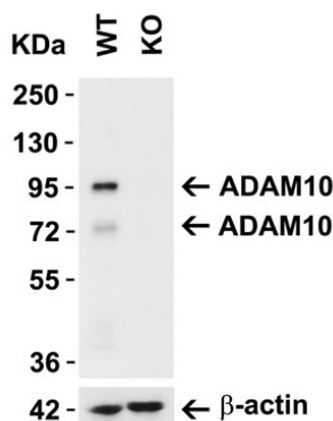
Western Blot of ADAM10.

Load: 10 μ g of MEF cell lysates, WT or KO.

Primary Antibody: ADAM10 and beta-actin at 1 μ g/mL for 1 h incubation at RT in 5% NFDm/TBST.

Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

Observed: detected both precursor ADAM10 (94kD) and mature ADAM10 (68kD).



Western Blot

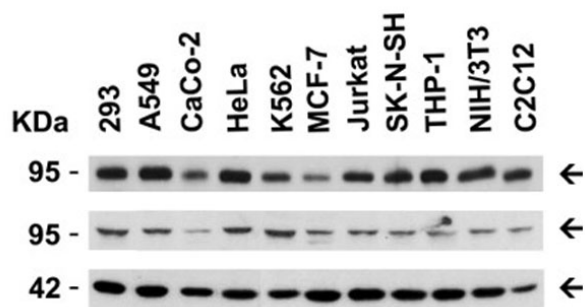
Western Blot of ADAM10.

Load: 15 μ g of 293 cell lysate, WT of KO.

Primary Antibody: ADAM10 at 2 μ g/mL and beta-actin at 1 μ g/mL for 1 h incubation at RT in 5% NFDm/TBST.

Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

Observed: detected both precursor ADAM10 (94kD) and mature ADAM10 (68kD).



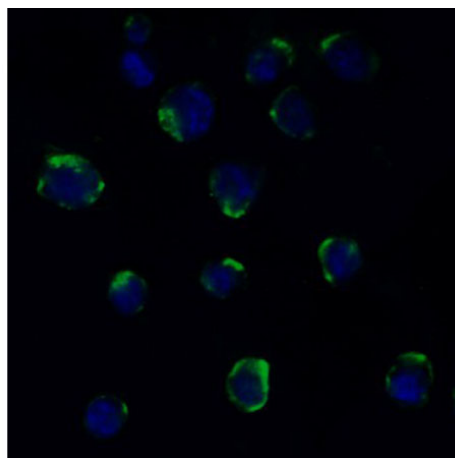
Western Blot

Western Blot of ADAM10.

Load: 15 μ g of mouse or human cell lysates per lane.

Primary Antibody: Top: ADAM10 (p/n 200-401-949), 0.5 μ g/mL, Middle: ADAM10, 1 μ g/mL, and Bottom: beta-actin, 1 μ g/mL, 1h incubation at RT in 5% NFDN/TBST.

Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Microscopy

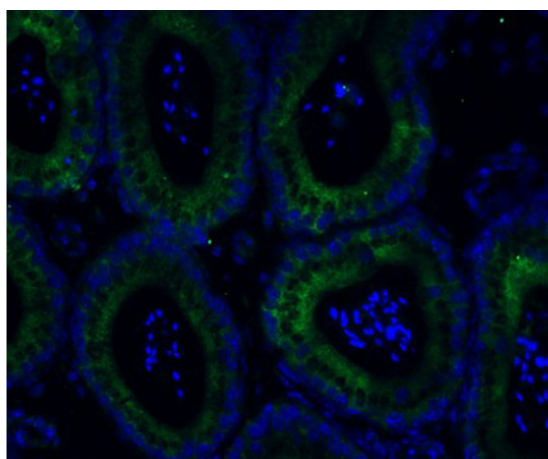
Immunofluorescence of ADAM10.

Cell: MOLT4 Cells.

Fixation: 4% paraformaldehyde-fixed.

Primary Antibody: ADAM10 at 20 μ g/mL.

Secondary: goat anti-rabbit IgG secondary antibody at 1:500 dilution (green) and DAPI staining (blue).



Immunofluorescence Microscopy

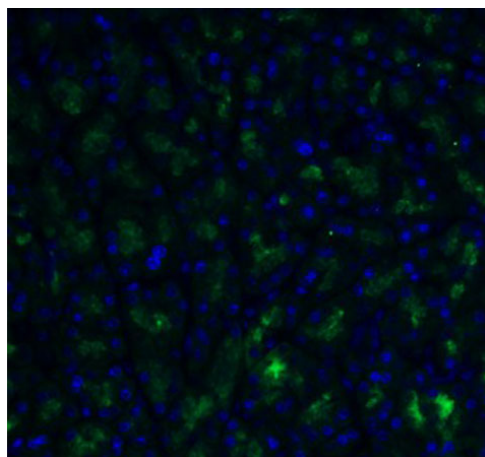
Immunofluorescence of ADAM10.

Tissue: Rat Testis.

Fixation: 4% paraformaldehyde-fixed.

Primary Antibody: ADAM10 at 20 μ g/mL.

Secondary: goat anti-rabbit IgG secondary antibody at 1:500 dilution (green) and DAPI staining (blue).



Immunofluorescence Microscopy

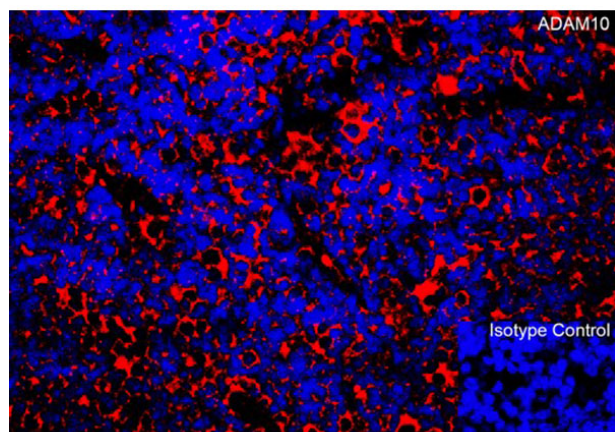
Immunofluorescence of ADAM10.

Tissue: Rat Testis.

Fixation: 4% paraformaldehyde-fixed.

Primary Antibody: ADAM10 at 20 µg/mL.

Secondary: goat anti-rabbit IgG secondary antibody at 1:500 dilution (green) and DAPI staining (blue).



Immunofluorescence Microscopy

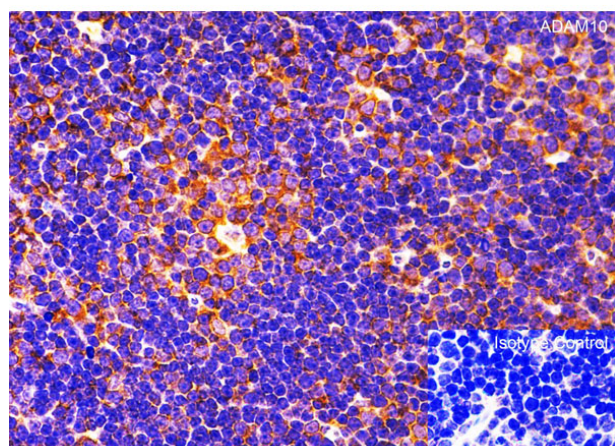
Immunofluorescence of ADAM10.

Tissue: Rat Thymus.

Fixation: 4% paraformaldehyde-fixed.

Primary Antibody: ADAM10 at 10 µg/mL.

Secondary: goat anti-rabbit IgG secondary antibody at 1:500 dilution (red) and DAPI staining (blue).



Immunohistochemistry

Immunohistochemistry of ADAM10.

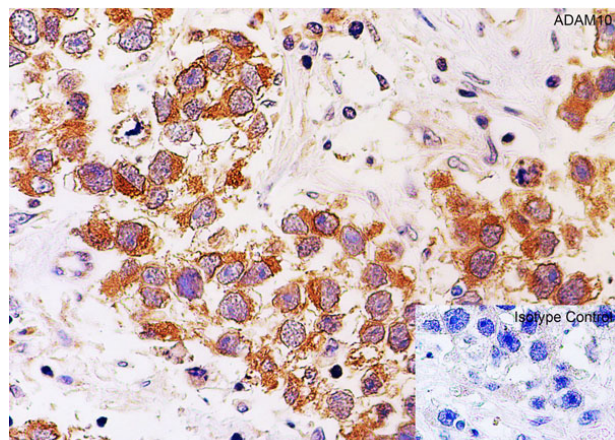
Tissue: Mouse Thymus.

Fixation: paraffin-embedded, fixed with formaldehyde and blocked with 10% serum for 1 h at RT.

Antigen Retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-ADAM10 antibody at 2 µg/ml overnight at 4°C.

Secondary Antibody: goat anti-rabbit IgG H&L (HRP) at 1:250 dilution. Counter stained with Hematoxylin.



Immunohistochemistry

Immunohistochemistry of ADAM10.

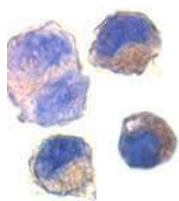
Tissue: Human Testis.

Fixation: paraffin-embedded, fixed with formaldehyde and blocked with 10% serum for 1 h at RT.

Antigen Retrieval: heat mediation with a citrate buffer (pH6).

Primary Antibody: anti-ADAM10 antibody at 2 µg/ml overnight at 4°C.

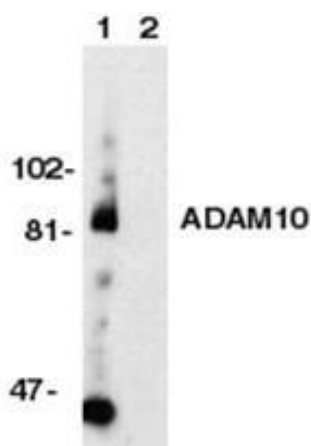
Secondary Antibody: goat anti-rabbit IgG H&L (HRP) at 1:250 dilution. Counter stained with Hematoxylin.



Immunohistochemistry

Immunohistochemistry using Rockland's IgG fraction of anti-ADAM10 antibody shows staining of ADAM10 in K562 cells.

The cells were fixed with para-formaldehyde and reacted with primary antibody diluted to 1:500.



Western Blot

Western blot using Rockland's IgG fraction of anti-ADAM10 antibody shows detection of ADAM10 in Jurkat whole cell lysate in the absence (1) or presence (2) of blocking peptide. The membrane was probed with the primary antibody diluted to 1:1,000.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.