



Rabbit Anti-ADAM12 antibody

SL5847R

Product Name:	ADAM12
Chinese Name:	去整合素样金属蛋白酶12抗体
Alias:	A disintegrin and metalloproteinase domain 12; A disintegrin and metalloproteinase domain 12; ADA12_HUMAN; ADAM 12; ADAM metallopeptidase domain 12; Disintegrin and metalloproteinase domain-containing protein 12; MCMP; MCMPMltna; MCMPMltna; Meltrin alpha; Meltrin-alpha; MLTN; MLTNA; OTTHUMP00000046766.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000Flow-Cyt=3µg/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	77/100kDa
Cellular localization:	The cell membraneSecretory protein
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ADAM12:201-300/909<Extracellular>
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Involved in skeletal muscle regeneration, specifically at the onset of cell fusion. Also involved in macrophage-derived giant cells (MGC) and osteoclast formation from mononuclear precursors.

Function:

Involved in skeletal muscle regeneration, specifically at the onset of cell fusion. Also involved in macrophage-derived giant cells (MGC) and osteoclast formation from mononuclear precursors (By similarity).

Subunit:

Interacts with alpha-actinin-2 and with syndecans (By similarity). Interacts with SH3PXD2A. Interacts with FST3. Interacts with GNB2L1/RACK1; the interaction is required for PKC-dependent translocation of ADAM12 to the cell membrane.

Subcellular Location:

Isoform 1: Cell membrane; Single-pass type I membrane protein.

Isoform 2: Secreted.

Isoform 3: Secreted (Potential).

Isoform 4: Secreted (Potential).

Tissue Specificity:

Isoform 1 is expressed in placenta and skeletal, cardiac, and smooth muscle. Isoform 2 seems to be expressed only in placenta or in embryo and fetus. Both forms were expressed in some tumor cells lines. Not detected in brain, lung, liver, kidney or pancreas.

Post-translational modifications:

The precursor is cleaved by a furin endopeptidase (By similarity).

Similarity:

Contains 1 disintegrin domain.

Contains 1 EGF-like domain.

Contains 1 peptidase M12B domain.

SWISS:

O43184

Gene ID:

8038

Database links:

[Entrez Gene: 8038](#)Human

[Entrez Gene: 11489](#)Mouse

[Entrez Gene: 679837](#)Rat

[Omim: 602714](#)Human

[SwissProt: O43184](#)Human

[SwissProt: Q61824](#)Mouse

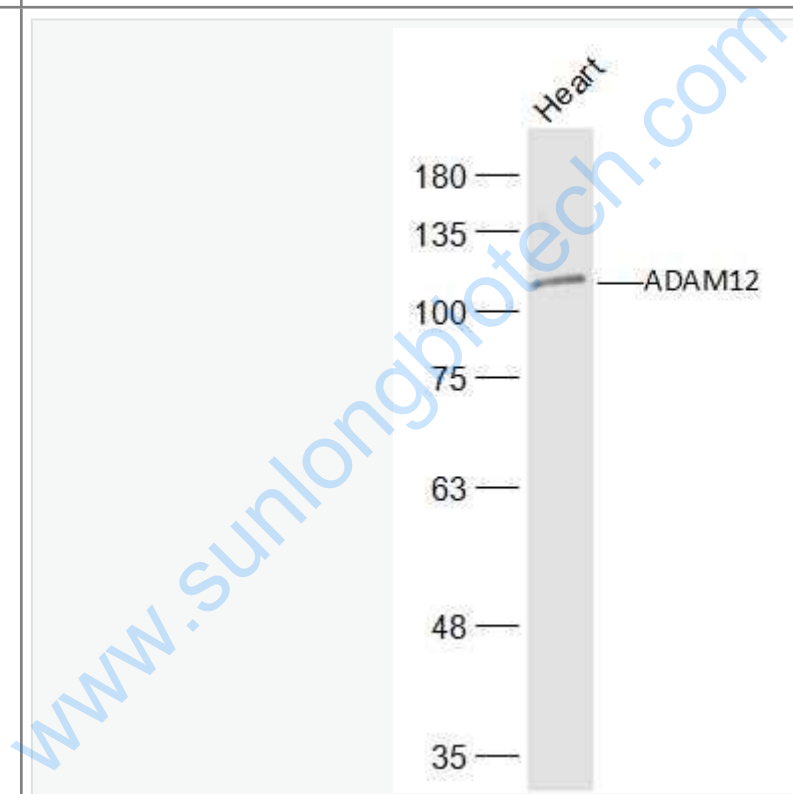
[Unigene: 594537](#)Human

[Unigene: 439714](#)Mouse

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



Sample:

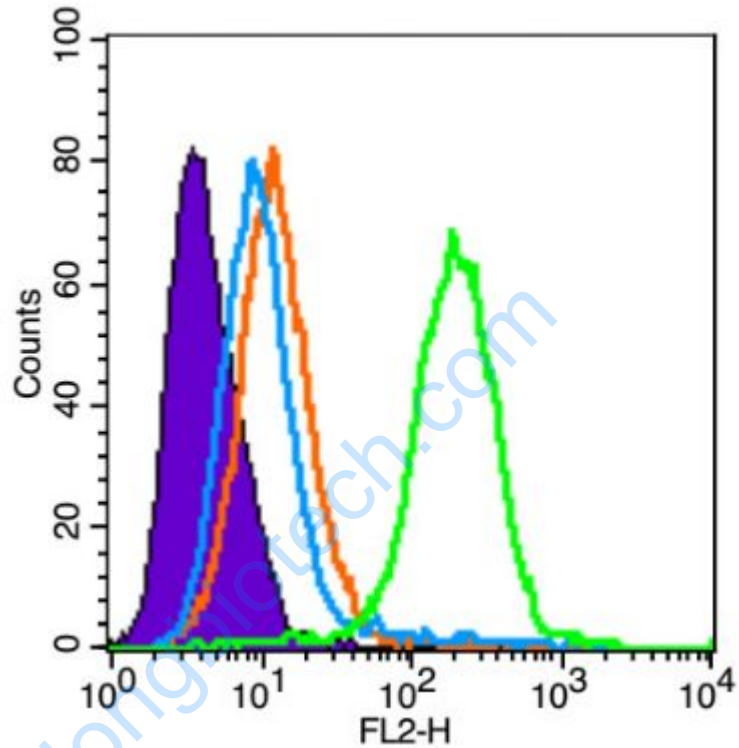
Heart (Mouse) Lysate at 40 ug

Primary: Anti-ADAM12 (SL5847R) at 1/500 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 77/100 kD

Observed band size: 115 kD



Blank control (Black line): U87MG (Black).

Primary Antibody (green line): Rabbit Anti-ADAM12 antibody (SL5847R)

Dilution: $1\mu\text{g} / 10^6$ cells;

Isotype Control Antibody (orange line): Rabbit IgG.

Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE

Dilution: $1\mu\text{g} / \text{test}$.

Protocol

The cells were fixed with 4% PFA (10min at room temperature) and then were incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room

temperature. The secondary antibody used for 40 min at room temperature.

Acquisition of 20,000 events was performed.

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