

# ADAMDEC1 (P-13): sc-87543

## BACKGROUND

ADAMDEC1 (ADAM-like, decysin 1), also known as decysin, is a 470 amino acid secreted protein that belongs to the disintegrin metalloproteinase family. Expressed primarily in dendritic cells (DCs) of the small intestine, spleen and lymph nodes, ADAMDEC1 can bind one zinc ion per subunit and is thought to be involved in controlling the immune response. ADAMDEC1 expression is induced in maturing DC cells in response to T cell signals and its expression is upregulated during differentiation of primary monocytes into macrophages. ADAMDEC1 contains one peptidase M12B domain, a prematurely terminated disintegrin domain and, unlike other ADAM family members, does not have an intracellular tail or a cysteine-rich domain.

## REFERENCES

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- Bates, E.E., et al. 2002. The ADAMDEC1 (decysin) gene structure: evolution by duplication in a metalloprotease gene cluster on chromosome 8p12. *Immunogenetics* 54: 96-105.
- Online Mendelian Inheritance in Man, OMIM<sup>™</sup>. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 606393. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
- Fritsche, J., et al. 2003. Inverse regulation of the ADAM-family members, decysin and MADDAM/ADAM19 during monocyte differentiation. *Immunology* 110: 450-457.
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- Kim, E., et al. 2007. Genomic organization of the region spanning D14Mit262 and D14Mit86 on mouse chromosome 14 and exclusion of ADAM28 and ADAMDEC1 as the cataract-causing gene, Ir2. *Cytogenet. Genome Res.* 116: 12-17.

## CHROMOSOMAL LOCATION

Genetic locus: ADAMDEC1 (human) mapping to 8p21.2; Adamdec1 (mouse) mapping to 14 D2.

## SOURCE

ADAMDEC1 (P-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ADAMDEC1 of human origin.

## PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-87543 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

ADAMDEC1 (P-13) is recommended for detection of ADAMDEC1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

ADAMDEC1 (P-13) is also recommended for detection of ADAMDEC1 in additional species, including canine.

Suitable for use as control antibody for ADAMDEC1 siRNA (h): sc-77568, ADAMDEC1 siRNA (m): sc-140863, ADAMDEC1 shRNA Plasmid (h): sc-77568-SH, ADAMDEC1 shRNA Plasmid (m): sc-140863-SH, ADAMDEC1 shRNA (h) Lentiviral Particles: sc-77568-V and ADAMDEC1 shRNA (m) Lentiviral Particles: sc-140863-V.

Molecular Weight of ADAMDEC1: 53 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204 or U-698-M whole cell lysate: sc-364799.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker<sup>™</sup> compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker<sup>™</sup> Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz<sup>™</sup> Mounting Medium: sc-24941.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **ADAMDEC1 (LL-17): sc-100478**, our highly recommended monoclonal alternative to ADAMDEC1 (P-13).