

ADAMDEC1 (LL-17): sc-100478

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™. 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.
- Papaspyridonos, M., et al. 2006. Novel candidate genes in unstable areas of human atherosclerotic plaques. *Arterioscler. Thromb. Biol.* 26: 1837-1844.
- 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.

SOURCE

ADAMDEC1 (LL-17) is a mouse monoclonal antibody raised against recombinant ADAMDEC1 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2a} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

ADAMDEC1 (LL-17) is recommended for detection of ADAMDEC1 of human origin by immunofluorescence (starting dilution to be determined by researcher, dilution range 1:50-1:2500), immunohistochemistry (including paraffin-embedded sections) (starting dilution to be determined by researcher, dilution range 1:50-1:2500) and solid phase ELISA (starting dilution to be determined by researcher, dilution range 1:100-1:5000).

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

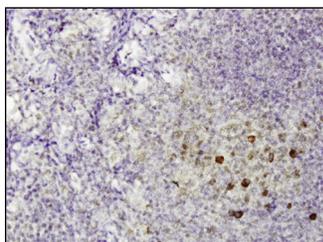
Molecular Weight of ADAMDEC1: 53 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200 or U-698-M whole cell lysate: sc-364799.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Immunofluorescence: use m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 2) Immunohistochemistry: use m-IgGκ BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

DATA



ADAMDEC1 (LL-17): sc-100478. Immunoperoxidase staining of formalin-fixed, paraffin-embedded human tonsil tissue showing cytoplasmic localization.

SELECT PRODUCT CITATIONS

- Xu, J., et al. 2012. Expression and inhibition of ADAMDEC1 in cranio-pharyngioma cells. *Neurol. Res.* 34: 701-706.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.