

# CD5L (F-5): sc-514118

## BACKGROUND

CD5L (CD5 molecule-like), also known as API6, PRO229, Sp $\alpha$  or SP-ALPHA, is a 347 amino acid secreted protein that belongs to the scavenger receptor cysteine-rich (SRCR) family of leukocyte regulating proteins. Expressed in bone marrow, spleen, thymus, lymph node and fetal liver, CD5L is thought to be involved in regulating the immune system via binding to peripheral monocytes and mediating their activation and overall survival. CD5L has three cysteine-rich domains and, in addition to its role in the immune system, may function to inhibit apoptosis and promote macrophage survival.

## REFERENCES

1. Gebe, J.A., et al. 1997. Molecular cloning, mapping to human chromosome 1 q21-q23, and cell binding characteristics of Sp $\alpha$ , a new member of the scavenger receptor cysteine-rich (SRCR) family of proteins. *J. Biol. Chem.* 272: 6151-6158.
2. Bikah, G., et al. 1998. A role for CD5 in cognate interactions between T cells and B cells, and identification of a novel ligand for CD5. *Int. Immunol.* 10: 1185-1196.
3. Tissot, J.D., et al. 2002. IgM are associated to Sp  $\alpha$  (CD5 antigen-like). *Electrophoresis* 23: 1203-1206.
4. Online Mendelian Inheritance in Man, OMIM™. 2002. Johns Hopkins University, Baltimore, MD. MIM Number: 602592. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>
5. Sarrias, M.R., et al. 2005. A role for human Sp  $\alpha$  as a pattern recognition receptor. *J. Biol. Chem.* 280: 35391-35398.
6. Arai, S., et al. 2005. A role for the apoptosis inhibitory factor AIM/ Sp $\alpha$ /Api6 in atherosclerosis development. *Cell Metab.* 1: 201-213.

## CHROMOSOMAL LOCATION

Genetic locus: CD5L (human) mapping to 1q23.1.

## SOURCE

CD5L (F-5) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 121-140 within an internal region of CD5L of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG<sub>2b</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-514118 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

## 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.

## APPLICATIONS

CD5L (F-5) is recommended for detection of CD5L of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)], 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).

Suitable for use as control antibody for CD5L siRNA (h): sc-88774, CD5L shRNA Plasmid (h): sc-88774-SH and CD5L shRNA (h) Lentiviral Particles: sc-88774-V.

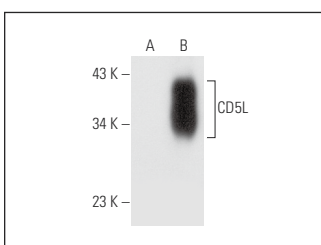
Molecular Weight of CD5L: 38 kDa.

Positive Controls: CD5L (h): 293T Lysate: sc-114208 or human spleen extract: sc-363779.

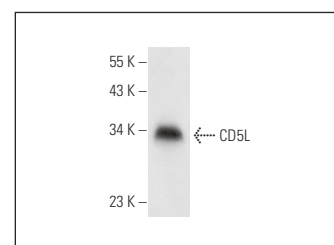
## RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG $\kappa$  BP-HRP: sc-516102 or m-IgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG $\kappa$  BP-FITC: sc-516140 or m-IgG $\kappa$  BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

## DATA



CD5L (F-5): sc-514118. Western blot analysis of CD5L expression in non-transfected: sc-117752 (A) and human CD5L transfected: sc-114208 (B) 293T whole cell lysates.



CD5L (F-5): sc-514118. Western blot analysis of CD5L expression in human spleen tissue extract.

## PROTOCOLS

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