CD163L1 (T-14): sc-167432

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BACKGROUND

CD163L1 (CD163 molecule-like 1), also known as scavenger receptor cysteine-rich type 1 protein M160 or CD163B, is a 1,453 amino acid protein that belongs to the scavenger receptor cysteine-rich (SRCR) superfamily. Members of the SRCR family contain SRCR domains which are used to influence ligand binding and protein-protein interaction, and are found in cells of the immune system where they exist as membrane-anchored or secreted proteins. Containing 12 SRCR domains, CD163L1 undergoes alternative splicing events to produce 3 isoforms. CD163L1 isoforms 1 and 2 are single-pass type I membrane proteins, unlike isoform 3, which is a secreted protein. CD163L1 isoform 1 is abundantly expressed in lymph node, spleen, thymus and fetal liver, and isoform 2 is found exclusively in spleen. The gene encoding CD163L1 maps to human chromosome 12p13.31.

REFERENCES

1. Stover, C.M., et al. 2000. Assignment of CD163B, the gene encoding M160, a novel scavenger receptor, to human chromosome 12p13.3 by *in situ* hybridization and somatic cell hybrid analysis. Cytogenet. Cell Genet. 90: 246-247.

2. Gronlund, J., et al. 2000. Cloning of a novel scavenger receptor cysteine-rich type I transmembrane molecule (M160) expressed by human macrophages. J. Immunol. 165: 6406-6415.

3. Zhang, Z., et al. 2004. Signal peptide prediction based on analysis of experimentally verified cleavage sites. Protein Sci. 13: 2819-2824.

4. Chen, R., et al. 2009. Glycoproteomics analysis of human liver tissue by combination of multiple enzyme digestion and hydrazide chemistry. J. Proteome Res. 8: 651-661.

5. Online Mendelian Inheritance in Man, OMIM™. 2009. Johns Hopkins University, Baltimore, MD. MIM Number: 606079. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/

6. Van Gorp, H., et al. 2010. Identification of the CD163 protein domains involved in infection of the porcine reproductive and respiratory syndrome virus. J. Virol. 84: 3101-3105.

CHROMOSOMAL LOCATION

Genetic locus: Cd163l1 (mouse) mapping to 7 F4.

SOURCE

CD163L1 (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of CD163L1 of mouse 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-167432 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

CD163L1 (T-14) is recommended for detection of CD163L1 of mouse and rat 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); non cross-reactive with CD163.

CD163L1 (T-14) is also recommended for detection of CD163L1 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for CD163L1 siRNA (m): sc-142179, CD163L1 shRNA Plasmid (m): sc-142179-SH and CD163L1 shRNA (m) Lentiviral Particles: sc-142179-V.

Molecular Weight of CD163L1 isoforms: 159/155/80 kDa.

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™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ 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™ 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.

PROTOCOLS

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