

CLEC-12B (T-14): sc-167481

BACKGROUND

The C-type lectin/C-type lectin-like domain (CTL/CTLD) superfamily consists of a variety of proteins that share a common protein fold and have diverse functions, including cell-cell signaling, cell adhesion, glycoprotein turnover and immune responses. CLEC-12B (C-type lectin domain family 12 member B), also known as macrophage antigen H, is a 276 amino acid single-pass type II membrane protein that contains one C-type lectin domain and belongs to the CTL/CTLD superfamily. Existing as two alternatively spliced isoforms that are expressed in testis, ovary, colon, kidney, heart, lung and mammary gland, CLEC-12B functions as a cell surface receptor that prevents target cells from natural killer cell-mediated lysis. CLEC-12B contains an immunoreceptor tyrosine-based inhibitor motif (ITIM) through which it modulates several cellular responses, and is encoded by a gene that maps to human chromosome 12p13.2.

REFERENCES

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- East, L., et al. 2002. The mannose receptor family. *Biochim. Biophys. Acta* 1572: 364-386.
- Ebner, S., et al. 2003. Evolutionary analysis reveals collective properties and specificity in the C-type lectin and lectin-like domain superfamily. *Proteins* 53: 44-55.
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CHROMOSOMAL LOCATION

Genetic locus: *Clec12b* (mouse) mapping to 6 F3.

SOURCE

CLEC-12B (T-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of CLEC-12B of mouse origin.

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.

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-167481 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CLEC-12B (T-14) is recommended for detection of CLEC-12B 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 other CLEC family members.

Suitable for use as control antibody for CLEC-12B siRNA (m): sc-142377, CLEC-12B shRNA Plasmid (m): sc-142377-SH and CLEC-12B shRNA (m) Lentiviral Particles: sc-142377-V.

Molecular Weight of CLEC-12B: 32 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.

RESEARCH USE

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