



CLEC-6 (C-20): sc-49419

BACKGROUND

The human β -glucan protein (Dectin-1) is a small, type II transmembrane receptor that enables β -glucan dependent, nonopsonic recognition of zymosan and other yeast-derived particles by primary macrophages. Dectin-1 is expressed in dendritic cells and is the human homolog of the C-type (calcium dependent) lectin-like receptor (CLEC) family that plays an important role in regulating innate immunity. The CLEC protein structure has a specific fold that provides a highly static scaffold for combinatorial display of variable antigen residues. This fold differs from the classic immunoglobulin fold, illustrating an evolutionary solution for balancing diversity against stability. CLEC-6 is a single-pass, type II transmembrane protein that is highly expressed in bone marrow and spleen and weakly expressed in peripheral blood leukocytes. CLEC-6 may function as a receptor in the antigen uptake at the infection location.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CLEC4D (human) mapping to 12p13.31; Clec4d (mouse) mapping to 6 F3.

SOURCE

CLEC-6 (C-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of CLEC-6 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-49419 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CLEC-6 (C-20) is recommended for detection of CLEC-6 of 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).

Suitable for use as control antibody for CLEC-6 siRNA (h): sc-60398.

Molecular Weight of CLEC-6: 30 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.

RESEARCH USE

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

PROTOCOLS

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