

CLEC-4E (P-15): sc-161486

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-4E (C-type Lectin domain family 4, member E), also known as Mincle (macrophage-inducible C-type Lectin) or CLECSF9, is a 219 amino acid single-pass type II membrane protein that contains one C-type Lectin domain. Expressed in monocytes, CLEC-4E functions as a downstream target of C/EBP β and is thought to play a role in the inflammatory response, possibly via transcriptional control of C/EBP β . Human CLEC-4E shares 67% sequence identity with its mouse counterpart, suggesting a similar function between species. CLEC-4E exists as multiple alternatively spliced isoforms that are encoded by a gene which maps to a natural killer gene complex region on human chromosome 12.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Clec4e (mouse) mapping to 6 F2.

SOURCE

CLEC-4E (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of CLEC-4E of mouse 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-161486 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CLEC-4E (P-15) is recommended for detection of CLEC-4E 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 CLEC-4F.

CLEC-4E (P-15) is also recommended for detection of CLEC-4E in additional species, including canine and bovine.

Suitable for use as control antibody for CLEC-4E siRNA (m): sc-142388, CLEC-4E shRNA Plasmid (m): sc-142388-SH and CLEC-4E shRNA (m) Lentiviral Particles: sc-142388-V.

Molecular Weight of CLEC-4E: 35 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.