

# CD300E (T-17): sc-242395

## BACKGROUND

CD300E (CD300 antigen-like family member E), also known as CD300LE, CLM2 (CMRF35-like molecule 2), CMRF35A5 or IREM2 (immune receptor expressed on myeloid cells 2), is a 205 amino acid single-pass type I membrane protein that contains one Ig-like V-type (immunoglobulin-like) domain and belongs to the CD300 family. Interacting with DAP12, CD300E most likely functions as an activating receptor. CD300E is present on the surface of mature hematopoietic cells of the monocyte and myeloid lineages. The gene that encodes CD300E consists of approximately 13,872 bases and maps to human chromosome 17q25.1. Comprising over 2.5% of the human genome, chromosome 17 consists of about 81 million bases, encodes over 1,200 genes and has the highest gene density in the genome. Chromosome 17 is also enriched in segmental duplications, ranking third in density among the autosomes.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: Cd300e (mouse) mapping to 11 E2.

## SOURCE

CD300E (T-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal extracellular domain of CD300E 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-242395 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

CD300E (T-17) is recommended for detection of CD300E of mouse 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 CD300E siRNA (m): sc-142192, CD300E shRNA Plasmid (m): sc-142192-SH and CD300E shRNA (m) Lentiviral Particles: sc-142192-V.

Molecular Weight of CD300E: 23 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](http://www.scbt.com) or our catalog for detailed protocols and support products.