



ELMOD2 (D-20): sc-82878

BACKGROUND

The Engulfment and Cell Motility (ELMO) domain is found in proteins involved in cytoskeletal rearrangements required for phagocytosis of apoptotic cells and cell motility. ELMOD2 (ELMO domain-containing protein 2) is a 293 amino acid protein that is one of 6 human proteins that contain an ELMO domain. ELMOD2 is thought to interact with DOCK1 through a SH3-binding site, which enhances the guanine nucleotide exchange factor (GEF) activity of DOCK1. Therefore, ELMOD2 may also be part of a complex with DOCK1 and Rac1 that is required to activate Rac Rho small GTPases. Evidence of decreased ELMOD2 expression in lung of individuals with familial idiopathic pulmonary fibrosis (IPF) suggests that defects in the gene encoding ELMOD2 may be linked to susceptibility for familial IPF.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ELMOD2 (human) mapping to 4q31.1; Elmod2 (mouse) mapping to 8 C2.

SOURCE

ELMOD2 (D-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ELMOD2 of human 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-82878 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ELMOD2 (D-20) is recommended for detection of ELMOD2 of mouse, rat and 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); non cross-reactive with family member ELMOD1 .

ELMOD2 (D-20) is also recommended for detection of ELMOD2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for ELMOD2 siRNA (h): sc-77263, ELMOD2 siRNA (m): sc-77264, ELMOD2 shRNA Plasmid (h): sc-77263-SH, ELMOD2 shRNA Plasmid (m): sc-77264-SH, ELMOD2 shRNA (h) Lentiviral Particles: sc-77263-V and ELMOD2 shRNA (m) Lentiviral Particles: sc-77264-V.

Molecular Weight of ELMOD2: 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.