

ELMOD1 (H-96): sc-292229

BACKGROUND

ELMOD1 (ELMO/CED-12 domain containing 1), is a 334 amino acid protein that contains one ELMO domain and is encoded by a gene that maps to human chromosome 11. With approximately 135 million base pairs and 1,400 genes, chromosome 11 comprises approximately 4% of human genomic DNA and is considered a gene and disease association dense chromosome. The chromosome 11 encoded ATM gene is important for regulation of cell cycle arrest and apoptosis following double strand DNA breaks. ATM mutation leads to the disorder known as ataxia-telangiectasia. The blood disorders sickle cell anemia and thalassemia are caused by HBB gene mutations, while Wilms' tumors, WAGR syndrome and Denys-Drash syndrome are associated with mutations of the WT1 gene. Jervell and Lange-Nielsen syndrome, Jacobson syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are also associated with defects in chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ELMOD1 (human) mapping to 11q22.3; Elmod1 (mouse) mapping to 9 A5.3.

SOURCE

ELMOD1 (H-96) is a rabbit polyclonal antibody raised against amino acids 239-334 mapping at the C-terminus of ELMOD1 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.

APPLICATIONS

ELMOD1 (H-96) is recommended for detection of ELMOD1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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 ELMOD2.

ELMOD1 (H-96) is also recommended for detection of ELMOD1 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for ELMOD1 siRNA (h): sc-77261, ELMOD1 siRNA (m): sc-77262, ELMOD1 shRNA Plasmid (h): sc-77261-SH, ELMOD1 shRNA Plasmid (m): sc-77262-SH, ELMOD1 shRNA (h) Lentiviral Particles: sc-77261-V and ELMOD1 shRNA (m) Lentiviral Particles: sc-77262-V.

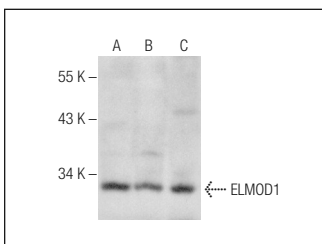
Molecular Weight of ELMOD1: 39 kDa.

Positive Controls: U-87 MG cell lysate: sc-2411, rat kidney extract: sc-2394 or mouse brain extract: sc-2253.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



ELMOD1 (H-96): sc-292229. Western blot analysis of ELMOD1 expression in U-87 MG whole cell lysate (A) and rat kidney (B) and mouse brain (C) tissue extracts.

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.