SANTA CRUZ BIOTECHNOLOGY, INC.

elF1AD (C-15): sc-242609



The Power to Question

BACKGROUND

elF1AD (eukaryotic translation initiation factor 1A domain containing), also known as probable RNA-binding protein ElF1AD or haponin, is a 165 amino acid protein that belongs to the elF1AD family and contains one S1-like domain. elF1AD localizes to nucleus and is expressed in the glioblastoma cell line U-87 MG, the embryonic kidney cell line HEK-293, the pancreatic carcinoma cell line PANC-1, the breast carcinoma cell line MCF7, the lung cancer cell line NCI-H460, and the chronic myelogenous leukemia cell proliferation. The gene encoding elF1AD maps to human chromosome 11q13.1. With approximately 135 million base pairs and 1,400 genes, chromosome 11 makes up around 4% of human genomic DNA and is considered a gene and disease association dense chromosome. Jervell and Lange-Nielsen syndrome, Jacobsen syndrome, Niemann-Pick disease, hereditary angioedema and Smith-Lemli-Opitz syndrome are associated with defects in chromosome 11.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: EIF1AD (human) mapping to 11q13.1.

SOURCE

elF1AD (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of elF1AD of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-242609 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

elF1AD (C-15) is recommended for detection of elF1AD 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); non cross-reactive with other elF family members.

eIF1AD (C-15) is also recommended for detection of eIF1AD in additional species, including equine, bovine and porcine.

Suitable for use as control antibody for elF1AD siRNA (h): sc-96955, elF1AD shRNA Plasmid (h): sc-96955-SH and elF1AD shRNA (h) Lentiviral Particles: sc-96955-V.

Molecular Weight of elF1AD: 19 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) Immunofluo-rescence: 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.