

eIF1AD (T-17): sc-242607

BACKGROUND

eIF1AD (eukaryotic translation initiation factor 1A domain containing), also known as probable RNA-binding protein EIF1AD or haponin, is a 165 amino acid protein that belongs to the eIF1AD family and contains one S1-like domain. eIF1AD 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 line K-562. eIF1AD interacts with GAPDH and may function to reduce cell proliferation. The gene encoding eIF1AD 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; Eif1ad (mouse) mapping to 19 A.

SOURCE

eIF1AD (T-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of eIF1AD 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.

Blocking peptide available for competition studies, sc-242607 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

eIF1AD (T-17) is recommended for detection of eIF1AD 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 other eIF family members.

eIF1AD (T-17) is also recommended for detection of eIF1AD in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for eIF1AD siRNA (h): sc-96955, eIF1AD siRNA (m): sc-144610, eIF1AD shRNA Plasmid (h): sc-96955-SH, eIF1AD shRNA Plasmid (m): sc-144610-SH, eIF1AD shRNA (h) Lentiviral Particles: sc-96955-V and eIF1AD shRNA (m) Lentiviral Particles: sc-144610-V.

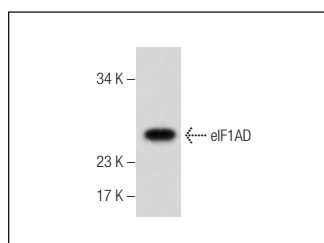
Molecular Weight of eIF1AD: 19 kDa.

Positive Controls: K-562 nuclear extract: sc-2130.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



eIF1AD (T-17): sc-242607. Western blot analysis of eIF1AD expression in K-562 nuclear extract.

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.