

OCIAD1 (E-12): sc-390906

BACKGROUND

OCIAD1 (OCIA domain containing 1), also known as OCIA (ovarian carcinoma immunoreactive antigen), TPA018 or ASRIJ, is a 245 amino acid endosomal protein that contains one OCIA domain and belongs to the OCIAD1 family. OCIAD1 exists as two alternatively spliced isoforms (termed OCIAD1 isoform A and B) that localize to different tissues; isoform A localizes to prostate, brain, mammary gland, testis, placenta and ovary, whereas isoform B is restricted to the central nervous system. The gene encoding OCIAD1 maps to human chromosome 4, which represents approximately 6% of the human genome, contains nearly 900 genes and is associated with Huntington's disease, Ellis-van Creveld syndrome, methylmalonic acidemia and polycystic kidney disease.

REFERENCES

1. Kalchman, M.A., et al. 1996. Huntingtin is ubiquitinated and interacts with a specific ubiquitin-conjugating enzyme. *J. Biol. Chem.* 271: 19385-19394.
2. Howard, T.D., et al. 1997. Autosomal dominant postaxial polydactyly, nail dystrophy, and dental abnormalities map to chromosome 4p16, in the region containing the Ellis-van Creveld syndrome locus. *Am. J. Hum. Genet.* 61: 1405-1412.
3. Singhrao, S.K., et al. 1998. Huntingtin protein colocalizes with lesions of neurodegenerative diseases: an investigation in Huntington's, Alzheimer's, and Pick's diseases. *Exp. Neurol.* 150: 213-222.
4. Krakow, D., et al. 2000. Exclusion of the Ellis-van Creveld region on chromosome 4p16 in some families with asphyxiating thoracic dystrophy and short-rib polydactyly syndromes. *Eur. J. Hum. Genet.* 8: 645-648.

CHROMOSOMAL LOCATION

Genetic locus: OCIAD1 (human) mapping to 4p11; Ociad1 (mouse) mapping to 5 C3.2.

SOURCE

OCIAD1 (E-12) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 2-39 at the N-terminus of OCIAD1 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

OCIAD1 (E-12) is available conjugated to agarose (sc-390906 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-390906 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-390906 PE), fluorescein (sc-390906 FITC), Alexa Fluor® 488 (sc-390906 AF488), Alexa Fluor® 546 (sc-390906 AF546), Alexa Fluor® 594 (sc-390906 AF594) or Alexa Fluor® 647 (sc-390906 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-390906 AF680) or Alexa Fluor® 790 (sc-390906 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

Blocking peptide available for competition studies, sc-390906 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% stabilizer protein).

APPLICATIONS

OCIAD1 (E-12) is recommended for detection of OCIAD1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

OCIAD1 (E-12) is also recommended for detection of OCIAD1 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for OCIAD1 siRNA (h): sc-88922, OCIAD1 siRNA (m): sc-150170, OCIAD1 shRNA Plasmid (h): sc-88922-SH, OCIAD1 shRNA Plasmid (m): sc-150170-SH, OCIAD1 shRNA (h) Lentiviral Particles: sc-88922-V and OCIAD1 shRNA (m) Lentiviral Particles: sc-150170-V.

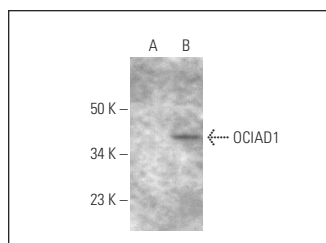
Molecular Weight of OCIAD1: 28 kDa.

Positive Controls: OCIAD1 (h): 293T Lysate: sc-110825.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



OCIAD1 (E-12): sc-390906. Western blot analysis of OCIAD1 expression in non-transfected: sc-117752 (A) and human OCIAD1 transfected: sc-110825 (B) whole cell lysates.

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.

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