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OCIAD1 Antibody

Catalog # ASC11006

Product Information

Application	WB, IF, E
Primary Accession	Q9NX40
Other Accession	NP_060300, 8923427
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	27626
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	OCIAD1 antibody can be used for detection of OCIAD1 by Western blot at 1 - 2 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	54940
Other Names	OCIA domain-containing protein 1, Ovarian carcinoma immunoreactive antigen, OCIAD1, OCIA
Target/Specificity	OCIAD1;
Reconstitution & Storage	OCIAD1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	OCIAD1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	OCIAD1 (HGNC:16074)
Function	Maintains stem cell potency (By similarity). Increases STAT3 phosphorylation and controls ERK phosphorylation (By similarity). May act as a scaffold, increasing STAT3 recruitment onto endosomes (By similarity). Involved in integrin-mediated cancer cell adhesion and colony formation in ovarian cancer (PubMed:20515946).
Cellular Location	Endosome {ECO:0000250|UniProtKB:Q9CRD0}.
Tissue Location	Isoform 1 is highly expressed in many tissues, including testis, brain, placenta, ovary, prostate and mammary gland Isoform 2 expression is restricted to the

central nervous system including brain, cerebellum and spinal cord

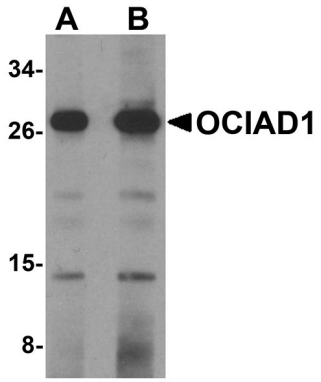
Background

OCIAD1 Antibody: OCIAD1 was identified via immunoscreening of an ovarian carcinoma cDNA library from ovarian cancer patients and is expressed in multiple tissues including ovary, placenta, brain, testis, prostate, and mammary gland. Two isoforms of OCIAD1 are known to exist; the shorter isoform is restricted to the central nervous system. OCIAD1 is a transmembrane protein whose overexpression in HEY ovarian cancer cells increased lysophosphatidic acid- (LPA-)induced, but not basal level cell adhesion to extracellular matrix proteins collagen I and laminin10/11. This adhesion is not blocked by LY294002 and GF109203X, suggesting that OCIAD1 does not use protein kinase C and PI3 kinase signaling pathways to exert its effect on adhesion.

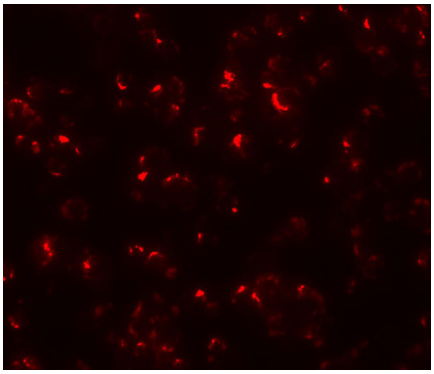
References

Luo LY, Soosaipillai A, and Diamandis EP. Molecular cloning of a novel human gene on chromosome 4p11 by immunoscreening of an ovarian carcinoma cDNA library. Biochem. Biophys. Res. Commun.2001; 280:401-6.
Sengupta S, Michener CM, Escobar P, et al. Ovarian cancer immuno-reactive antigen domain containing 1 (OCIAD1), a key player in ovarian cancer cell adhesion. Gynecologic Oncol.2008; 109:226-33.

Images



Western blot analysis of OCIAD1 in 293 cell lysate with OCIAD1 antibody at (A) 1 and (B) 2 µg/mL.



Immunofluorescence of OCIAD1 in 293 cells with OCIAD1 antibody at 20 µg/mL.