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OCIAD1 Antibody
Catalog # ASC11006

Specification

OCIAD1 Antibody - Product Information

Application	**WB, IF**
Primary Accession	Q9NX40
Other Accession	NP_060300, 8923427
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**OCIAD1 antibody can be used for detection of OCIAD1 by Western blot at 1 - 2 µg/mL. For immunofluorescence start at 20 µg/mL.**

OCIAD1 Antibody - Additional Information

Gene ID	**54940**

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.

OCIAD1 Antibody - 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

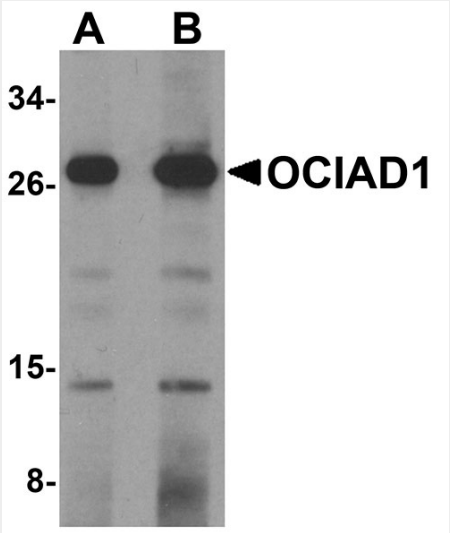
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OCIAD1 Antibody - Protocols

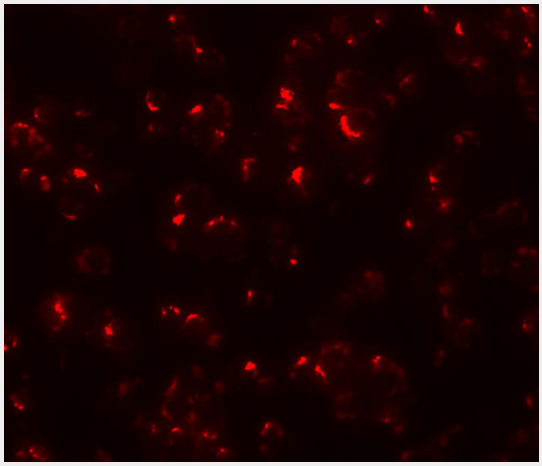
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

OCIAD1 Antibody - 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.

OCIAD1 Antibody - 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.

OCIAD1 Antibody - 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.