

AXIN1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant AXIN1.

Catalog # AT1249a

Product Information

Application	WB, IF, E
Primary Accession	O15169
Other Accession	NM_003502
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2B11
Calculated MW	95635

Additional Information

Gene ID	8312
Other Names	Axin-1, Axis inhibition protein 1, hAxin, AXIN1, AXIN
Target/Specificity	AXIN1 (NP_003493, 643 a.a. ~ 740 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	AXIN1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

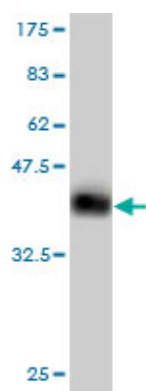
Background

This gene encodes a cytoplasmic protein which contains a regulation of G-protein signaling (RGS) domain and a dishevelled and axin (DIX) domain. The encoded protein interacts with adenomatosis polyposis coli, catenin (cadherin-associated protein), beta 1, 88kDa, glycogen synthase kinase 3 beta, protein phosphatase 2, and itself. This protein functions as a negative regulator of the wingless-type MMTV integration site family, member 1 (WNT) signaling pathway and can induce apoptosis. The crystal structure of a portion of this protein, alone and in a complex with other proteins, has been resolved. Mutations in this gene have been associated with hepatocellular carcinoma, hepatoblastomas, ovarian endometrioid adenocarcinomas, and medullablastomas. Two transcript variants encoding distinct isoforms have been identified for this gene.

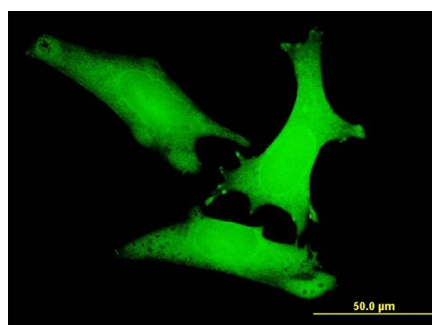
References

Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. MAP3K1 functionally interacts with Axin1 in the canonical Wnt signalling pathway. Sue Ng S, et al. Biol Chem, 2010 Feb-Mar. PMID 20128690. Axin downregulates TCF-4 transcription via beta-catenin, but not p53, and inhibits the proliferation and invasion of lung cancer cells. Yang LH, et al. Mol Cancer, 2010 Feb 2. PMID 20122174. Application of gene network analysis techniques identifies AXIN1/PDIA2 and endoglin haplotypes associated with bicuspid aortic valve. Wooten EC, et al. PLoS One, 2010 Jan 21. PMID 20098615.

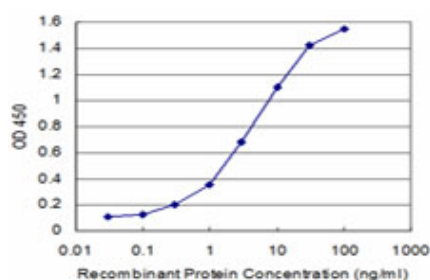
Images



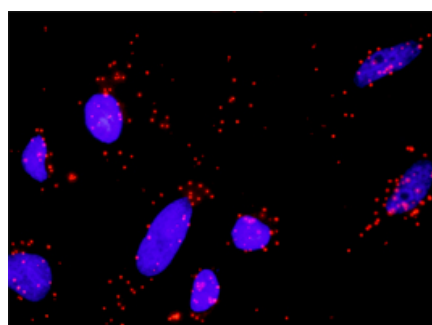
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 KDa) .



Immunofluorescence of monoclonal antibody to AXIN1 on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged AXIN1 is approximately 0.3ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between GSK3B and AXIN1 HeLa cells were stained with anti-GSK3B rabbit purified polyclonal 1:1200 and anti-AXIN1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Citations

- [AHSA1 regulates proliferation, apoptosis, migration, and invasion of osteosarcoma.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.