Axis Inhibition Protein 2 (AXIN2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Axis Inhibition Protein 2 (AXIN2), Polyclonal Antibody
Full Product Name	Biotin-Linked Polyclonal Antibody to Axis Inhibition Protein 2 (AXIN2)
Product Gene Name	anti-AXIN2 antibody
Product Synonym Names	Axil; Conductin; Axin Related Protein; Axin-like protein
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: AXIN2 (MBS2002604) Biotin Conjugated Antibody: AXIN2 (MBS2094271)
Matching Pairs	Biotin Conjugated Antibody: AXIN2 (MBS2094271) Immunogen: AXIN2 (MBS2009289)
Molecular Weight	93,558 Da
OMIM	AF078165 mRNA
3D Structure	ModBase 3D Structure for Q9Y2T1
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	Biotin
Cross Reactivity	Human
Immunogen	AXIN2 (Pro350~Lys631)
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-AXIN2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-AXIN2 antibody	MBS2094271 is an antibody targeting AXIN2. Also known as Biotin-Linked Polyclonal Antibody to Axis Inhibition Protein 2 (AXIN2). Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-AXIN2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AXIN2. It may not necessarily be applicable to this product.

NCBI GI #	195927059
NCBI GeneID	8313
NCBI Accession #	NP_004646.3
UniProt Primary Accession #	Q9Y2T1

UniProt Secondary Accession #	Q3MJ88; Q9H3M6; Q9UH84
UniProt Related Accession #	Q9Y2T1
GenBank Nucleotide #	NM_004655.3
NCBI Official Full Name	axin-2
NCBI Official Synonym Full Names	axin 2
NCBI Official Symbol	AXIN2
NCBI Official Synonym Symbols	AXIL; ODCRCS
UniProt Protein Name	Axin-2
UniProt Synonym Protein Names	Axin-like protein; Axil; Axis inhibition protein 2; Conductin
Protein Family	Axin
UniProt Gene Name	AXIN2
UniProt Synonym Gene Names	Axil
NCBI Protein Information	axin-2
NCBI Summary for AXIN2	The Axin-related protein, Axin2, presumably plays an important role in the regulation of the stability of beta-catenin in the Wnt signaling pathway, like its rodent homologs, mouse conductin/rat axil. In mouse, conductin organizes a multiprotein complex of APC (adenomatous polyposis of the colon), beta-catenin, glycogen synthase kinase 3-beta, and conductin, which leads to the degradation of beta-catenin. Apparently, the deregulation of beta-catenin is an important event in the genesis of a number of malignancies. The AXIN2 gene has been mapped to 17q23-q24, a region that shows frequent loss of heterozygosity in breast cancer, neuroblastoma, and other tumors. Mutations in this gene have been associated with colorectal cancer with defective mismatch repair. [provided by RefSeq, Jul 2008]
UniProt Comments for AXIN2	axin 2: is a negative regulator of the Wnt pathway, which is critical in stem cell signaling, morphogenesis, the mesenchymal-epithelial transition, and many cancers. Axin functions as a tumor suppressor. Probably facilitates the phosphorylation of beta-catenin and APC by GSK3B, leading to their ubiquitination and subsequent proteolysis. Is downregulated during progression of esophageal squamous cell carcinoma. Axin1/2 mediate cross-talk between TGF-beta and Wnt signaling pathways. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 17q24.1 Cellular Component: beta-catenin destruction complex; centrosome; cytoplasm; cytosol; nucleus; plasma membrane Molecular Function: beta-catenin binding; enzyme binding; GTPase activator activity; I-SMAD binding; protein binding; ubiquitin protein ligase binding Biological Process: beta-catenin-TCF complex assembly; bone mineralization; cell proliferation; cellular protein localization; chondrocyte differentiation involved in endochondral bone morphogenesis; intramembranous ossification; maintenance of DNA repeat elements; mRNA stabilization; negative regulation of canonical Wnt signaling pathway; negative regulation of cell proliferation; negative regulation of osteoblast differentiation; odontogenesis; positive regulation of canonical Wnt signaling pathway; positive regulation of cell death; positive regulation of epithelial to mesenchymal transition; positive regulation of GTPase activity; positive regulation of protein phosphorylation; protein deubiquitination; regulation of mismatch repair; secondary heart field specification; somitogenesis; Wnt signaling pathway Disease: Colorectal Cancer; Oligodontia-colorectal Cancer Syndrome
Research Articles on AXIN2	**1.** Hepatic Axin2 expressing CD90+ cells play a cancer stem cell-like role in the progression from liver cirrhosis to hepatocarcinoma.

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