

Recombinant Human AXIN1, MYC/DDK-tagged

Cat. No. AXIN1-106H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human AXIN1, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.

Species Human

Source HEK293

Description 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 adenomatous polyposis coli, catenin beta-1, 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.

Molecular Mass 91.5 kDa

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration >50 ug/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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GENE INFORMATION

Gene Name	AXIN1 axin 1 [Homo sapiens (human)]
Official Symbol	AXIN1
Synonyms	AXIN1; axin 1; axin-1; PPP1R49; protein phosphatase 1; regulatory subunit 49; axis inhibitor 1; fused, mouse, homolog of; axis inhibition protein 1; protein phosphatase 1, regulatory subunit 49; AXIN; MGC52315
Gene ID	8312
mRNA Refseq	NM_181050
Protein Refseq	NP_851393
MIM	603816
UniProt ID	O15169
Chromosome Location	16p13.3
Pathway	AMER1 mutants destabilize the destruction complex; APC truncation mutants have impaired AXIN binding; Basal cell carcinoma
Function	GTPase activator activity; R-SMAD binding; armadillo repeat domain binding

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