

Recombinant Human AXIN1, His-tagged

Cat. No. AXIN1-26564TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 663-826 of Human Axin 1 with N terminal His tag; Predicted MWt 20 kDa.
Species	Human
Source	E.coli
ProteinLength	663-826 a.a.
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 adenomatosis polyposis coli, catenin beta-1, glycogen synthase kinase 3 beta, protein phosphate 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 endometriod adenocarcinomas, and medullablastomas. Two transcript variants encoding distinct isoforms have been identified for this gene.
Conjugation	HIS
Tissue specificity	Ubiquitously expressed.
Form	Lyophilised:Reconstitute with 86 µl aqua dest.

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Storage buffer	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	ENSRPLSLEHPWAGPQLRTSVQPSHLFIQDPTMPPHPAPN PLTQLEEARRRLEEEE KRASRAPSKQRTRSQRKVGGS AQPCDSIVVAYYFCGEPIPYRTLVRGRAVTLGQ FKELL TTKGSYRYFFKKVSDEFDCGVVFEEVREDEAVLPVFEE KIIGKVEKVD
Sequence Similarities	Contains 1 DIX domain. Contains 1 RGS domain.

GENE INFORMATION

Gene Name	AXIN1 axin 1 [Homo sapiens]
Official Symbol	AXIN1
Synonyms	AXIN1; axin 1; axin-1; PPP1R49; protein phosphatase 1; regulatory subunit 49;
Gene ID	8312
mRNA Refseq	NM_003502
Protein Refseq	NP_003493
MIM	603816
Uniprot ID	O15169
Chromosome Location	16p13.3

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Pathway

Basal cell carcinoma, organism-specific biosystem; Basal cell carcinoma, conserved biosystem; Beta-catenin phosphorylation cascade, organism-specific biosystem; C-MYC pathway, organism-specific biosystem; Canonical Wnt signaling pathway, organism-specific biosystem;

Function

GTPase activator activity; I-SMAD binding; R-SMAD binding; SMAD binding; armadillo repeat domain binding;

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