

Recombinant Human AXIN1, GST-tagged

Cat. No. AXIN1-105H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AXIN1(1 a.a. - 589 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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.
Molecular Mass	90.53 kDa
AA Sequence	MTGLLKRKFDQLDEDNSSVSSSSSSSGCQSRSCSPSSSVSRAWDSEEEGPWDQM PLPDRDFCGPRSFTPLSILKR ARRERPGRVAFDGITVFYFPRCQGFTSVPSRGGCT LGMALRHSACRRFSLAEFAQEQARARHEKLRQLKEEKLE MLQWKLSAAGVPQAE AGLPPVVD AID DASVEEDLAVAVAGGRLEEVSFLQYPARRRRALLRASGVRRIDRE

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EKR ELQALRQSREDCGCHCDRICDPETCSCSLAGIKCQMDHTAFPCGCCREGCEN
 PMGRVEFNQARVQTHFIHTLTRL QLEQEAESFRELEAPAQGSPSPGEEALVPTFP
 LAKPPMNNELGDNSCSDMTDSSTASSSASGTSEAPDCPTHP GLPGPGFQPGVD
 DDSLARILSFSDSDFGGEEEEEEEGSVGNLDNLSCFHPADIFGTSDPGGLASWTHS
 YSGCSFT SGILDENANLDASCFLNGGLEGSREGSLPGTSVPPSMDAGRSSSVDL
 SSCDSFELLQALPDYSLGPHYTSQKV SDSLDNIEAPHFPLPGLSPPGDASSCFLESL
 MGFSEPAEALDPFIDSQFEDTVPASLMEPVPV

Applications ELISA; WB-Re; AP; Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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_003502](#)

Protein Refseq [NP_003493](#)

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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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