

## Recombinant Human AXIN1, GST-tagged

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

### SPECIFICATION

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

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EKR ELQALRQSREDCGCHCDRICDPETCSCSLAGIKCQMDHTAFPCGCCREGCEN  
 PMGRVEFNQARVQTHFIHTLTRL QLEQEAESFRELEAPAQGSPSPGEEALVPTFP  
 LAKPPMNNELGDNSCSDMTDSSTASSSASGTSEAPDCPTHP GLPGPGFQPGVD  
 DDSLARILSFSDSDFGGEEEEEEEGSVGNLDNLSCFHPADIFGTSDPGGLASWTHS  
 YSGCSFT SGILDENANLDASCFLNGGLEGSREGSLPGTSVPPSMDAGRSSSVDLSL  
 SSCDSFELLQALPDYSLGPHYTSQKV SDSLDNIEAPHFPLPGLSPPGDASSCFLESL  
 MGFSEPAEALDPFIDSQFEDTVPASLMPEVPV

<b>Applications</b>	ELISA; WB-Re; AP; Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	AXIN1 axin 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	AXIN1
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">8312</a>
<b>mRNA Refseq</b>	<a href="#">NM_003502</a>
<b>Protein Refseq</b>	<a href="#">NP_003493</a>



<b>MIM</b>	603816
<b>UniProt ID</b>	O15169
<b>Chromosome Location</b>	16p13.3
<b>Pathway</b>	AMER1 mutants destabilize the destruction complex; APC truncation mutants have impaired AXIN binding; Basal cell carcinoma
<b>Function</b>	GTPase activator activity; R-SMAD binding; armadillo repeat domain binding

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