

Recombinant Human AXIN1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AXIN1-1983H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AXIN1 MS Standard C13 and N15-labeled recombinant protein (NP_851393) with a C-terminal MYC/DDK tag, 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 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. Alternative splicing results in multiple transcript variants.
Molecular Mass	91.5 kDa
AA Sequence	MNIQEQGFPLDLGASFTEDAPRPPVPGEEGELVSTDPRPASYSFCSGKGVGIKGET STATPRRSDLDLGYEPEGSASPTPPYLKWAESLHSLDDQDGLSFRFTFLKQEGCAD LLDFWFACTGFRKLEPCDSNEEKRLKLARAIYRKYILDNNGIVSRQTKPATKSFIKGCI

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MKQLIDPAMFDQAQTEIQATMEENTYPSFLKSDIYLEYTRTGSESPKVCSDQSSGSG
 TGKGISGYLPTLNEDEEWKCDQDMDEDDGRDAAPPGRLPQKLLLETAAPRVSSSR
 RYSEGREFRYGSWREPVPYVYNAGYALAPATSANDSEQQLSSDADTLSLTDSS
 VDGIPPYRIRKQHRREMQESVQVNGRVPLPHIPRTYRVPKEVRVPEQKFAEELIHRL
 EAVQRTREAEKLEERLKRVRMEEEGEDGDPSSGPPGPCHKLPPAPAWHHFPPRC
 VDMGCAGLRDAHEENPESILDEHVQRVLRTPGRQSPGPGHRSPDSGHVAKMPVAL
 GGAASGHGKHVPKSGAKLDAAGLHHHRHVHHHVHSTARPKVEAEATRRAQS
 SFAWGLEPHSHGARSRGYSESVGAAPNASDGLAHSKGVVACKRNAKKAESGKS
 ASTEVPGASEDAEKNQKIMQWIIIEGEKEISRHRRTGHGSSGTRKPQPHENSRLSLE
 HPWAGPQLRTSVQPSHLFIQDPTMPPHPAPNPLTQLEEARRRLEEEKCRASRPSK
 QRTRSQRKVGGSQAQPCDSIVVAYYFCGEPIPYRTLVRGRAVTLGQFKELLTKKGS
 YRYFYKKSDEFDCGVVFEEVREDEAVLPVFEEKIIGKVEKVDTRTRPLEQKLISEED
 LAANDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name AXIN1 axin 1 [Homo sapiens (human)]

Official Symbol AXIN1

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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

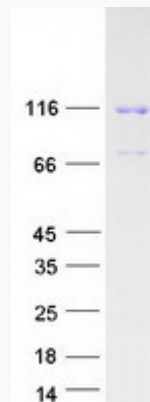
mRNA Refseq NM_181050

Protein Refseq NP_851393

MIM 603816

UniProt ID O15169

SDS-PAGE



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