

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	MNIQEQQGFPLDLGASFTEDAPRPPVPGEEGELVSTDPRPASYSFCSGKGVGIKGET STATPRRSDDLGLGYEPEGSASPTPPYLKWAESLHSLDDQDGLSLFRTLKQEGCAD LLDFWFACTGFRKLEPCDSNEEKRLKLARAIYRKYILDNNGIVSRQTKPATKSFIKGCI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

MKQLIDPAMFDQAQTEIQATMEENTYPSFLKSDIYLEYTRTGSESPKVCSDQSSGSG
 TGKGISGYLPTLNEDEEWKCDQDMDEDDGRDAAPPGRLPQKLLLETAAPRVSSSR
 RYSEGREFRYGSWREPVNPYYVNAGYALAPATSANDSEQQSLSSDADTLSLTDSS
 VDGIPPYRIRKQHRREMQESVQVNGRVPLPHIPRTYRVPKEVRVEPQKFAEELIHRL
 EAVQRTREAEKLEERLKRVRMEEEGEDGDPSSGPPGPCHKLPPAPAWHHFPPRC
 VDMGCAGLRDAHEENPESILDEHVQVRVLRTPGRQSPGPGHRSPDSGHVAKMPVAL
 GGAASGHGKHVPKSGAKLDAAGLHHHRHVHHHVHHSTARPKEQVEAEATRRASQ
 SFAWGLEPHSHGARSRGYSESVAAPNASDGLAHSGKVG VACKRNAKKAESGKS
 ASTEVPGASEDAEKNQKIMQWIIERGEKEISRHRRTGHGSSGTRKPQPHENSRLSLE
 HPWAGPQLRTSVQPSHLFIQDPTMPPHPAPNPLTQLEEARRRLEEEEEKRASRPSK
 QRTRSQRKVGGSQAQPCDSIVVAYYFCGEPIPYRTLVRGRAVTLGQFKELLTKKGS
 YRYYFKKVSDEFDCGVVFEEVREDEAVLPVFEEKIIGKVEKVDTRTRPLEQKLISEED
 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	