

Product datasheet for PH308349

Axin 1 (AXIN1) (NM_181050) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AXIN1 MS Standard C13 and N15-labeled recombinant protein (NP_851393)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208349
Predicted MW:	91.5 kDa
Protein Sequence:	>RC208349 representing NM_181050 Red=Cloning site Green=Tags(s)

MNIQEQGFPLDLGASFTEDAPRPPVPGEEGELVSTDPRPASYSFCSGKGVGKGETSTATPRRSDLDLGY
EPEGSASPTPPYLKWAESLHSLDDQDGLSLFRTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKL
ARAIYRKYILDNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDQAQTEIQATMEENTYPSFLKSDIYLEY
TRTGSESPKVCSDQSSSGSGTGKISGYLPTLNEDEEWKCDQDMEEDDGRDAAPPGRLPQKLLLETAAPRV
SSRRYSEGREFRYGSWREPVPNPYYNAGYALAPATSANDSEQQSLSSDADTSLTDSSVDGIPPYRIRK
QHRREMQESVQVNGRVPLPHIPRTYRVPKEVRVEPQKFAEELIHRLEAVQRTREAEKLEERLKRVRMEE
EGEDGDPSSGPPGCHKLPPAPAWHHFPPRCVDMGCAGLRDAHEENPESILDEHVQRVLRTPGRQSPGPG
HRSPDSGHVAKMPVALGGAASGHGKHVPKSGAKLDAAGLHHHRVHHVHHSTARPKQVEAEATRAAQS
SFAWGLEPHSHGARSRGYSESVGAAPNASDGLAHSKGVGVACKRNAKKAESGKSASTEVPGASEDAEKNQ
KIMQWIIIEGEKEISRHRRTGHGSSGTRKQPHENSRLSLEHPWAGPQLRTSVQPSHLFIQDPTMPPHPA
PNPLTQLEEARRLEEEEEKRASRAPSKQRTRSQRKVGGGSAQPCDSIVVAYYFCGEPYRRTLVRGRAVT
LGQFKELLTKKGSYRYFFKKSDEFDCGVVFEVREDEAVLPVFEEKIIGKVEKVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_851393



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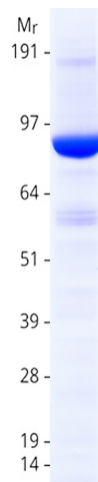
RefSeq Size:	3369
RefSeq ORF:	2478
Synonyms:	AXIN; PPP1R49
Locus ID:	8312
UniProt ID:	Q15169 , A0A0S2Z4S3
Cytogenetics:	16p13.3

Summary: 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 endometrioid adenocarcinomas, and medullablastomas. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2016]

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - Wnt Signaling pathway

Protein Pathways: Basal cell carcinoma, Colorectal cancer, Endometrial cancer, Pathways in cancer, Wnt signaling pathway

Product images:



Coomassie blue staining of purified AXIN1 protein (Cat# [TP308349]). The protein was produced from HEK293T cells transfected with AXIN1 cDNA clone (Cat# [RC208349]) using MegaTran 2.0 (Cat# [TT210002]).