

Product datasheet for TP525159

Axin1 (NM_009733) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Mouse axin 1 (Axin1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

Species: Mouse

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >MR225159 representing NM_009733
Red=Cloning site Green=Tags(s)

MQSPKMNVQEQGFPLDLGASFTEDAPRPPVPGEEGELVSTDSRPVNHSFCSGKGTSIKSETSTATPRRSD
LDLGYEPEGSASPTPPYLRWAESLHLLDDQDGISLFRFLKQEGCADLLDFWFACSGFRKLEPCDSNEE
KRLKLARAIYRKYILDSNGIVSRQTKPATKSFIDKDCVMKQQIDPAMFDQAQTEIQSTMEENTYPSFLKSD
IYLEYTRTGSSEPKVCSDQSSSGTGKGMMSGYLPTLNEDEEWKCDQDADEDDGRDPLPPSRLTQKLLLET
AAPRAPSSRRYNEGRELRYGSWREPVPNPYYVNSGYALAPATSANDSEQQLSSDADTLSLTDSSVDGIPP
YRIRKQHRREMQUESIQVNGRVPLPHIPRTYRMPKEIRVEPQKFAEELIHRLEAVQRTREAEKLEERLKR
VRMEEEGEDGEMPSGPMASHKLPSVPAWHHFPPRYVDMGCSGLRDAHEENPESILDEHVQRMVTPGCQS
PGPGHRSPDSGHVAKTAVLGGTASGHGKHVPKLGKLDTAGLHHHRVHHVHHNSARPKEQMEAEVARR
VQSSFSWGPETHGHAKPRSYENAGTTLSAGDLAFGGKTSAPSKRNTKKAESGKNANAEPSTTEDAEKN
QKIMQWIIERGEKEISRHRKAGHGSSGLRKQQAHESSRPLSIERP GAVHPWVSAQLRNSVQPSHLFIQDPT
MPPNPAPNPLTQLEEARRRLEEEK RANKLPSKQRYVQAVMQRGRTCVRPACAPVLSVPAVSDLELSET
ETKSQRKAGGGSAPPCDSIVVAYYFCGEPIPYRTLVRGRAVTLGQFKELLTKKGSYRYFFKKVSDDEFDCG
VWFEEVREDEAVLPVFEEKIIGKVEKVD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 97.3 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.



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Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_033863
Locus ID:	12005
UniProt ID:	O35625 , E9QMJ8
RefSeq Size:	3809
Cytogenetics:	17 13.07 cM
RefSeq ORF:	2604
Synonyms:	AI316800; Axin; Fu; fused; Kb; Ki; kinky; knobbly
Summary:	Component of the beta-catenin destruction complex required for regulating CTNNB1 levels through phosphorylation and ubiquitination, and modulating Wnt-signaling (By similarity). Controls dorsoventral patterning via two opposing effects; down-regulates CTNNB1 to inhibit the Wnt signaling pathway and ventralize embryos, but also dorsalizes embryos by activating a Wnt-independent JNK signaling pathway. In Wnt signaling, probably facilitates the phosphorylation of CTNNB1 and APC by GSK3B. Likely to function as a tumor suppressor. Facilitates the phosphorylation of TP53 by HIPK2 upon ultraviolet irradiation. Enhances TGF-beta signaling by recruiting the RNF111 E3 ubiquitin ligase and promoting the degradation of inhibitory SMAD7 (By similarity). Also component of the AXIN1-HIPK2-TP53 complex which controls cell growth, apoptosis and development.[UniProtKB/Swiss-Prot Function]