

Product datasheet for TP320742L

IBP160 (AQR) (NM_014691) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human aquarius homolog (mouse) (AQR), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC220742 protein sequence Red=Cloning site Green=Tags(s)

MAAPAQPKKIVAPTVSQINAEFVTQLACKYWAPHIKKSPFDIKVIEDIYEKEIVKSRFAIRKIMLLEFS
 QYLENYLWMNYSPEVSSKAYLMSICCMVNEKFRENVPaweIFKKKPDHFPFFFKHILKAALAEtDGEFSL
 HEQTVLLLFLDHCfNSLEVDLIRSQVQQLISLPMWMLQLARLELELKKTPKLRKFWNLIKKNDEKMDPE
 AREQAYQERRFLSqliQKFISVLKSVPLSEPVTMDKVHYCERFIELMIDLEALLPTRRWFNTILDSSHLL
 VHCYLSNLVrREEDGHLFSQLLDMLKFYTGFEINDQTGNALTENEMTTIHDRITSLQRAAFahFPelyD
 FALSNAEVDtRESLVKFFGPLSSNTLHQVASYLCLLPTLPKNEDTTFDKEFLELLVSRHERRISQIQQ
 LNQMPLYPTekiiWDENIVPTeySGEGCLALPKLNLQFLTLHDYLLRNfNLFREStYEIRQDIEDSVS
 RMKPWQSEYGGVFGGWARMAQPIVAFTVVEVAKPNIGENWPTRVRADVTINLNVRDHikDEWEGLRKHd
 VCFLITVRPTKPYGtKFDRRRPFIEQVGLVYVRGCEIQGMLDDKGRVIEDGPEPRPNLRGESRTFRVFLD
 PNQYQQDMtNTIQNGAEDVYETfNIIMRRKPKENNFKAVLETIRNLMNTDCVVPDwLHDIIlGYGDPSSA
 HYSKMPNqIATLDFNDtFLSIEHLKASFPGHNVKVTVEDPALQIPFRITFPVRSgKGKKRKDADVEDED
 TEEAKTLIVEPHVIPNRGPYPYNQPKRNTIQFTHTQIEAIRAGMQPGLTMVVGPPGTGKTdVAVQIISNI
 YHNFPEQRtLIVTHSNQALNQLFEKIMALDIDERHLLRLGHGEEETEKEKDFSRyGRVNYVlARRIELLE
 EVKRLQKSLGVPGDASyTCETAGYFFLYQVMSRWEEYISKVKNKGSTLPDVTEVSTFFPFHEyFANAPQP
 IFKGRSYEEDMEIAEGCFRHIKKIFTQLEEFRASELLRSGLDRSKYLLVKEAKIIAMTCTHAALKRHDLV
 KLGfKYDNILMEEAAQILEIETFIPLLLQNPDGfSRLKRWIMIGDHHQLPPVIKNMAfQKYSNMEQSLF
 TRFVRVGVPTVDLDAQGRARASLCNLYNWRYKNLGNLPHVQLLPEFSTANAGLLYDFQLINVEDfQGVGVE
 SEPnPYFYQNLGAEYVVALFMYMCLLGYPADKISILtTYNGQKHLIRDIINRRCGNNPLIGRPnKVtTV
 DRFQGGQNDYILLSLVRTRAVGHlRDVRRLLVAMSRARLGLYIFARVSLFQNCfELTPAFSQLTARPLHL
 HIIPTEFPtTRKNGERPSHEVQIIKNMPQMANFVYNYMHLIQTTHHYHQTLQLPPAMVEEGEEVQnQ
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 ANTPQDATSAPEETK

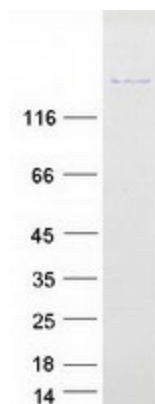
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK



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Predicted MW:	171.1 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
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
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_055506
Locus ID:	9716
UniProt ID:	O60306 , A0A024R9L1
RefSeq Size:	5106
Cytogenetics:	15q14
RefSeq ORF:	4455
Synonyms:	fSAP164; IBP160
Summary:	Involved in pre-mRNA splicing as component of the spliceosome (PubMed:11991638, PubMed:25599396, PubMed:28502770, PubMed:28076346). Intron-binding spliceosomal protein required to link pre-mRNA splicing and snoRNP (small nucleolar ribonucleoprotein) biogenesis (PubMed:16949364). Plays a key role in position-dependent assembly of intron-encoded box C/D small snoRNP, splicing being required for snoRNP assembly (PubMed:16949364). May act by helping the folding of the snoRNA sequence. Binds to intron of pre-mRNAs in a sequence-independent manner, contacting the region between snoRNA and the branchpoint of introns (40 nucleotides upstream of the branchpoint) during the late stages of splicing (PubMed:16949364). Has ATP-dependent RNA helicase activity and can unwind double-stranded RNA molecules with a 3' overhang (in vitro) (PubMed:25599396).[UniProtKB/Swiss-Prot Function]
Protein Pathways:	Spliceosome

Product images:

Coomassie blue staining of purified AQR protein (Cat# [TP320742]). The protein was produced from HEK293T cells transfected with AQR cDNA clone (Cat# [RC220742]) using MegaTran 2.0 (Cat# [TT210002]).