

Product datasheet for TP315650M

SPIRE2 (NM_032451) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human spire homolog 2 (Drosophila) (SPIRE2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC215650 representing NM_032451 Red=Cloning site Green=Tags(s)

MARAGSCGGAAAGAGRPEPWELSLEEVLKAYEQPLNEEQAWAVCFQGCRLRGSPGRRLRDTGDLLLRGD
GSVGAREPEAAEPATMVVPLASSEAQTVQSLGFAYRALDWGLDESEERELSPQLERLIDLMANNDSEDS
GCGAADEGYGGPEEEEEAEVPRSVRTFAQAMRLCAARLTDPRGAQAHYQAVCRALFVETLELRAFLARV
REAKEMLQKLREDEPHLET PRAELDSLGH TDWARLWVQLMRELRRGVKLLKVVQE QEFNPLPTEFQLTPFE
MLMQDIRARNYKLRKVMVDGDIPPRVKKDAHELILDFIRSRPPLKQVSERRLRPLPPKQ RSLHEKILEEI
KQERRLRPVRGEGWAARGFGSLPCILNACSGDAKSTSCINLSVTDAGGSAQRPRPRVLLKAPTLAEMEEM
NTSEEEESPCGEVTLKRDRSFSEHDLAQLRSEVASGLQSATHPPGGTEPPRPRAGSAHVWRPGRDQGTG
PASVSDPSHPLLSNRGSSGDRPEASMTDPDAKHLWLEFHPVESLALTV EEVMDVRRVVLVKAEMEKFLQNK
ELFSSLKKGKICCCCRAKFPLFSWPPSCLFCKRAVCTSCSIKMKMP SKKFGHIPVYTLGFESPQRVSAAK
TAPIQR RDIFQSLQGPQWQSV EEAFFPHIYSHGCVLKDVCSECTSFVADV RSRKSVDV LNTTPRRSRQT
QSLYIPNTRTLDFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	79.5 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.



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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_115827
Locus ID:	84501
UniProt ID:	Q8WWL2
RefSeq Size:	3249
Cytogenetics:	16q24.3
RefSeq ORF:	2142
Synonyms:	Spir-2
Summary:	Acts as an actin nucleation factor, remains associated with the slow-growing pointed end of the new filament (PubMed:21620703). Involved in intracellular vesicle transport along actin fibers, providing a novel link between actin cytoskeleton dynamics and intracellular transport (By similarity). Required for asymmetric spindle positioning and asymmetric cell division during meiosis (PubMed:21620703). Required for normal formation of the cleavage furrow and for polar body extrusion during female germ cell meiosis (PubMed:21620703). Also acts in the nucleus: together with SPIRE1 and SPIRE2, promotes assembly of nuclear actin filaments in response to DNA damage in order to facilitate movement of chromatin and repair factors after DNA damage (PubMed:26287480).[UniProtKB/Swiss-Prot Function]
Protein Pathways:	Dorso-ventral axis formation

Product images:



Coomassie blue staining of purified SPIRE2 protein (Cat# [TP315650]). The protein was produced from HEK293T cells transfected with SPIRE2 cDNA clone (Cat# [RC215650]) using MegaTran 2.0 (Cat# [TT210002]).