

Product datasheet for PH315650

SPIRE2 (NM_032451) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SPIRE2 MS Standard C13 and N15-labeled recombinant protein (NP_115827)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215650
Predicted MW:	79.5 kDa
Protein Sequence:	>RC215650 representing NM_032451 Red=Cloning site Green=Tags(s)

MARAGSCGAAAGAGRPEPWELSL EEVLKAYEQPLNEEQAWAVCFQGCRLRGSPGRRLRDTGDL LRLRGD
GSVGAREPEAAEPATMVVPLASSEAQTVQSLGFAIYRALDWGLDESEERELSPQLERLIDL MANNDSEDS
GCGAADEGYGGPEEEEEAEVPRSVRTFAQAMRLCAARLTDPRGAQAHYQAVCRALFVETLELRAFLARV
REAKEMLQKLREDEPHLET PRAELDSLGH TDWARLWVQLMRELRRGVK LKKVQE QEFNPLPTEFQLTPFE
MLMQDIRARNYKLRKVMVDGDI PPRVKKDAHELILDFIRSRPPLKQVSERRLRPLPPKQ RSLHEKILEEI
KQERRLRPVRGEGWAARGFGLPCILNACSGDAKSTSCINLSVTDAGGSAQRPRPRVLLKAPTLAEMEEM
NTSEEEESP CGEVT LKRDRSFSEHDLAQLRSEVASGLQSATHPPGGTEPPRPRAGSAHVWRPGSRDQGTC
PASVSDPSHPLL SNRGS SGRPEASMT PDAKHLWLEFSHPV ESLALTVEEVMDVRRVLVKAEMEKFLQNK
ELFSSLLKKGKICCCRAKFLFSWPPSCLFCKRAVCTSCSIKMKMPSKFKGHIPVYTLGFESPQRVSAAK
TAPIQR RDIFQSLQGPQWQSV EEAFFPHIYSHGCVLKDV CSECTSFVADVVRSSRKSVDV LNTTPRRSRQT
QSLYIPNTRTLDFK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	<u>NP_115827</u>



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RefSeq Size:	3249
RefSeq ORF:	2142
Synonyms:	Spir-2
Locus ID:	84501
UniProt ID:	Q8WWL2
Cytogenetics:	16q24.3

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]).