

[Go to Product page](#)

Datasheet for ABIN7564625
SPIRE2 Protein (AA 1-718) (His tag)

Overview

Quantity:	1 mg
Target:	SPIRE2
Protein Characteristics:	AA 1-718
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPIRE2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Spire2 Protein expressed in mammalien cells.
Sequence:	MARAGGGGAA APERAGGAAR PEPWELSLEE VLKVYEQPIN EEQAWAVCFQ GCRGLRGEFG GVRRIKDTAD ILLRRDGSVG ARLEPEPTTM VVPPASSEAQ MVQSLGFAY RALDWGLDEN EERELSPQLE RLIDLMANSD CEDSSCGAAD EGYVGPEEEEE EAEGGPRAVR TFAQAMRLCA LRLTDPHGAQ AHYQAVCRAL FVETLELRAF LARVREAKEM LKKLGEEEPK EKPLAELDHL GHTDWARLWV QLMREL RHGV KKKVQEKEF NPLPTEFQLT PFEMLMQDIR ARNYKLRKVM VDGDIPPRVK KDAHELILDF IRSRPLKQV SERQLRPVPQ KQRTLHEKIL EEIKQERRLR PVGAQHLGGR GFGSLPCILN ACSGDIKSTS CINLSVTDG SGSQRPRPRV LLKAPT LAEM EEMNTSEEEEE SPCGEVALKR DRSFSEHDLA QLRSEMASGL QSAAQPPGGT EPPRARAGSM HSWRPSSRDQ GFPCVSGSQ PLPSSALPSS LSSVDGPEAA SPDTRHLWLE FSHPVESLAL TVEEVVDVRR VLVKAEMERF LQDKELFSSL KRGKICCCCR AKFPLFSWPP TCLFCKRAVC TSCSVKMKMP SKKYGHIPVY TLGFESLQRV PTTKATPTLR RDAFQSLQGP KWRSVEEEFP

HIYAHGCVLK DVCSDFV ADVVCSRRKS VDVLNATPRR SRQTQSLYIP NRTLNFQ **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

Grade:

custom-made

Target Details

Target:

SPIRE2

Alternative Name:

Spire2 ([SPIRE2 Products](#))

Background:

Protein spire homolog 2 (Spir-2),FUNCTION: Acts as an actin nucleation factor, remains associated with the slow-growing pointed end of the new filament (PubMed:21620703, PubMed:21983562). Involved in intracellular vesicle transport along actin fibers, providing a novel link between actin cytoskeleton dynamics and intracellular transport (PubMed:21983562). Required for asymmetric spindle positioning and asymmetric cell division during oocyte 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

Target Details

DNA damage (By similarity). {ECO:0000250|UniProtKB:Q8WWL2, ECO:0000269|PubMed:21620703, ECO:0000269|PubMed:21983562}.

Molecular Weight: 80.2 kDa

UniProt: [Q8K1S6](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months