

Product datasheet for **AR50413PU-S**

Spindlin 1 / SPIN1 (1-262, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Spindlin 1 / SPIN1 (1-262, His-tag) human recombinant protein, 20 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGSSHHHHHH SSGLVPRGSH MGSMKTPFGK TPGQRSRADA GHAGVSANMM KKRTSHKKHR SSVGPSKPVS QPRRNIVGCR IQHGWKEGNG PVTQWKGTVL DQVPVNPSLY LIKYDGFDCV YGLELNKDER VSALEVL PDR VATSRISDAH LADTMIGKAV EHM FETEDGS KDEWRGMVLA RAPVMNTWFY ITYEKDPVLY MYQLDDYKE GDLRIMPDSN DSPPAEREPG EVVDSL VGKQ VEYAKEDGSK RTGMVIHQVE AKPSVYFIKF DDDFHIVVYD LVKTS
Tag:	His-tag
Predicted MW:	32.0 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 0.15M NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human SPIN1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_006708
Locus ID:	10927
UniProt ID:	Q9Y657 , A0A024R297
Cytogenetics:	9q22.1
Synonyms:	SPIN; TDRD24



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Summary:

Chromatin reader that specifically recognizes and binds histone H3 both trimethylated at 'Lys-4' and asymmetrically dimethylated at 'Arg-8' (H3K4me3 and H3R8me2a) and acts as an activator of Wnt signaling pathway downstream of PRMT2. In case of cancer, promotes cell cancer proliferation via activation of the Wnt signaling pathway (PubMed:24589551). Overexpression induces metaphase arrest and chromosomal instability. Localizes to active rDNA loci and promotes the expression of rRNA genes (PubMed:21960006). May play a role in cell-cycle regulation during the transition from gamete to embryo. Involved in oocyte meiotic resumption, a process that takes place before ovulation to resume meiosis of oocytes blocked in prophase I: may act by regulating maternal transcripts to control meiotic resumption.[UniProtKB/Swiss-Prot Function]

Product images: