

Anti-Spindlin-1 antibody



Description	Rabbit polyclonal to Spindlin-1.
Model	STJ95750
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IF, IHC, WB
Immunogen	Synthesized peptide derived from human Spindlin-1
Immunogen Region	80-160 aa, Internal
Gene ID	10927
Gene Symbol	SPIN1
Dilution range	WB 1:500-1:2000IHC 1:100-1:300IF 1:200-1:1000ELISA 1:20000
Specificity	Spindlin-1 Polyclonal Antibody detects endogenous levels of Spindlin-1 protein.
Tissue Specificity	Highly expressed in ovarian cancer tissues.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Spindlin-1 Ovarian cancer-related protein Spindlin1
Molecular Weight	30 kDa
Clonality	Polyclonal

Conjugation	Unconjugated
Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:11243OMIM:609936
Alternative Names	Spindlin-1 Ovarian cancer-related protein Spindlin1
Function	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 . Overexpression induces metaphase arrest and chromosomal instability. Localizes to active rDNA loci and promotes the expression of rRNA genes . 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.
Sequence and Domain Family	The 3 tudor-like domains (also named Spin/Ssty repeats) specifically recognize and bind methylated histones . H3K4me3 and H3R8me2a are recognized by tudor-like domains 2 and 1, respectively .
Cellular Localization	Nucleus Nucleus, nucleolus
Post-translational Modifications	Phosphorylated during oocyte meiotic maturation.