SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Haspin antibody

Catalog Number: SL22470R

FOR RESEARCH USE ONLY

[DATASHEET]

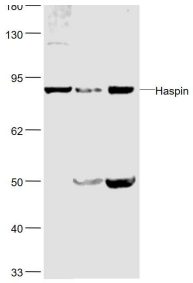
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Haspin
Immunogen:	KLH conjugated synthetic peptide derived from mouse Haspin: 421-520/754
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, Rat, (predicted: Human)
Predicted MW.:	88kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	Haspins is a protein family containing a distinctive C-terminal kinase domain and a divergent N-terminus. Haspin homologues occur within a diverse group of eukaryotes, including animals, plants and fungi, which suggests an early evolutionary origin. Haspin, a nuclear protein strongly expressed in male germ cells, is responsible for the phosphorylation of histone H3 at Thr-3. Depletion of Haspin RNA prevents normal alignment of chromosomes at metaphase, suggesting a crucial role for haspin during chromosome segregation. Expression of haspin also occurs in adult thymus and bone marrow, with weaker expression in adult prostate, intestine, lung, spleen, and lymph node. The gene encoding human haspin maps to chromosome 17p13. **Function:** Serine/threonine-protein kinase that phosphorylates histone H3 at 'Ser-3' (H3T3ph) during mitosis. This positions and activates AURKB and other components of the chromosomal passenger complex (CPC) at centromeres to ensure proper chromatid cohesion, metaphase alignment and normal progression through the cell cycle.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	Subcellular Location: Nucleus. Chromosome. Cytoplasm, cytoskeleton, spindle. Note=Nuclear during interphase and associates with the chromosomes and spindle apparatus during mitosis. **Tissue Specificity:** Strongly expressed in testis. Also present in thymus and bone marrow and low levels observed in prostate, intestine, lung, spleen and lymph node. Expressed in fetal skin, liver, kidney and small intestine and also in proliferating but not non-proliferating cell lines. **Post-translational modifications:** Autophosphorylated on both serine and threonine residues (By similarity). Strongly phosphorylated during mitosis but this does not appear to significantly affect its intrinsic kinase activity. Phosphorylation by AURKB is required for full activity toward histone H3 at 'Ser-3' in mitosis. **Similarity:** Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Haspin subfamily. Contains 1 protein kinase domain. **Database links:** **Entrez Gene:** 83903 Human Omim: 609240 Human **SwissProt:** Q8TF76 Human **Unigene:** 534059 Human

[VALIDATION IMAGES]



Sample:
Thymus(Rat) Lysate at 40 ug
Kidney(Rat) Lysate at 40 ug
Kidney(Mouse) Lysate at 40 ug
Primary: Anti-Haspin (SL22470R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 90 kD
Observed band size: 90 kD

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