SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-HEXO antibody

Catalog Number: SL15470R

FOR RESEARCH USE ONLY

[DATASHEET]

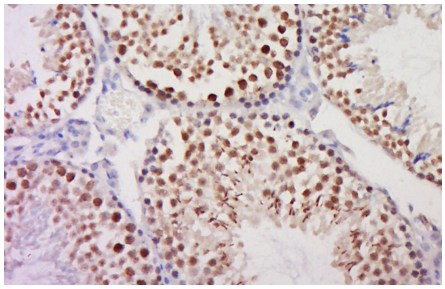
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HEXO
Immunogen:	KLH conjugated synthetic peptide derived from human HEXO: 51-150/349
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse(predicted:Human,Rat,Chicken,Dog,Pig,Cow,Rabbit,Sheep)
Predicted MW.:	40kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	Helicase with RNase motif, more commonly designated Dicer, cleaves double-stranded RNA (dsRNA) in the RNA interference and small temporal RNA (stRNA) pathways, producing active small RNA components (siRNAs) which target the destruction of RNA and repress gene expression. Human Dicer cleaves dsRNA independent of ATP. The 3’-5’ exonuclease ERI-1, also known as Protein 3'hExo, degrades Histone mRNA after replication and may be involved in the regulation of RNA interference. ERI-1 has a high affinity for the stem-loop structure of replication-dependent Histone pre-mRNAs. It requires the 5'-ACCCA-3' sequence present in stem-loop structure. ERI-1 and a stem-loop binding protein (SLBP) target opposite faces of a unique highly conserved stem-loop RNA scaffold towards the 3' end of Histone mRNA. **Function:** RNA exonuclease that binds to the 3'-end of histone mRNAs and degrades them, suggesting that it plays an essential role in histone mRNA

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	decay after replication. A 2' and 3'-hydroxyl groups at the last nucleotide of the histone 3'-end is required for efficient degradation of RNA substrates. Also able to degrade the 3'-overhangs of short interfering RNAs (siRNAs) in vitro, suggesting a possible role as regulator of RNA interference (RNAi). Requires for binding the 5'-ACCCA-3' sequence present in stem-loop structure. Able to bind other mRNAs. Required for 5.8S rRNA 3'-end processing. Also binds to 5.8s ribosomal RNA. Binds with high affinity to the stem-loop structure of replication-dependent histone pre-mRNAs. **Subunit:** Identified in a histone pre-mRNA complex, at least composed of ERI1, LSM11, SLBP, SNRPB, SYNCRIP and YBX1. Interacts in a cooperative manner with SLBP to the mature 3'-end of histone mRNAs (By similarity). Binds to 40S and 60S ribosomal subunits and to 80S assembled ribosomes. Found in a ternary complex with SLBP and the stem-loop structure of the 3'-end of histone mRNAs. **Subcellular Location:** Cytoplasm. Nucleus. Nucleus, nucleolus. **Similarity:** Contains 1 exonuclease domain. Contains 1 SAP domain. **Database links:** **Entrez Gene:** 90459 Human **Entrez Gene:** 361159 Rat Omim: 608739 Human **SwissProt:** Q8IV48 Human **SwissProt:** Q5FVR4 Rat **Unigene:** 20000 Human **Unigene:** 17469 Rat

[VALIDATION IMAGES]



Tissue/cell: mouse testis tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-HEXO Polyclonal Antibody, Unconjugated(SL15470R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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