SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-HELZ antibody

Catalog Number: SL15450R

FOR RESEARCH USE ONLY

[DATASHEET]

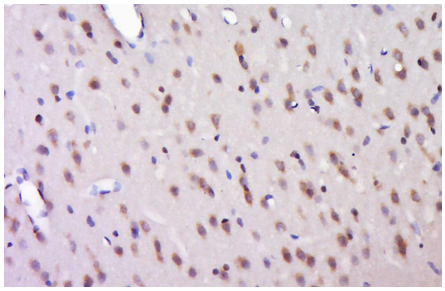
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	HELZ
Immunogen:	KLH conjugated synthetic peptide derived from human HELZ: 1-100/1942
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store 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 Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse)
Predicted MW.:	219kDa
Subcellular Location:	The nucleus
Background:	Helicases comprise a class of enzymes that function as motor proteins which move along nucleic acid phosphodiester bonds, effectively separating two annealed nucleic acid strands. RNA helicases alter the conformation of RNA, specifically by unwinding double-stranded RNA regions to yield single RNA strands, a process which changes the biological activity of the RNA molecule. HELZ (helicase with zinc finger), also known as DHRC or HUMORF5, is a 1,942 amino acid nuclear protein that contains one C3H1-type zinc finger and belongs to the RNA helicase superfamily. Expressed ubiquitously during embryonic development, HELZ is thought to function as an RNA helicase that modifies RNA structure and plays a role in the development of multiple organs and tissues within the developing embryo. **Function:** May act as a helicase that plays a role in RNA metabolism in

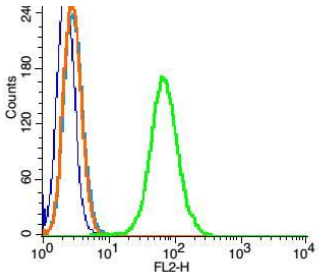
Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	multiple tissues and organs within the developing embryo. **Subunit:** Interacts with SMYD2 (By similarity). Interacts with POLR2A. Interacts with SMYD3; the interaction may bridge SMYD3 and RNA polymerase II. **Subcellular Location:** Nucleus (Probable). **Tissue Specificity:** Expressed predominantly in thymus and brain. Expression is down-regulated in 28 of 95 tested cancer cell lines. **Similarity:** Belongs to the DNA2/NAM7 helicase family. Contains 1 C3H1-type zinc finger. **Database links:** **Entrez Gene:** 9931 Human **Entrez Gene:** 78455 Mouse **Entrez Gene:** 287773 Rat Omim: 606699 Human **SwissProt:** P42694 Human **SwissProt:** Q6DFV5 Mouse

[VALIDATION IMAGES]





Tissue/cell: rat brain 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°C for 20 min;
Incubation: Anti-HELZ Polyclonal Antibody, Unconjugated(SL15450R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

Blank control: RSC96(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice..
Isotype Control Antibody: Rabbit IgG(orange) ;
Secondary Antibody: Goat anti-rabbit IgG-FITC(white blue),
Dilution: 1:100 in 1 X PBS containing 0.5% BSA ;
Primary Antibody Dilution: 1μg in 100 μL1X PBS containing 0.5% BSA(green).

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