10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HELZ Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP56002

Specification

HELZ Polyclonal Antibody - Product Information

Application	**IHC-P, IHC-F, IF, ICC, E**
Primary Accession	P42694
Reactivity	**Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**219 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human HELZ**
Epitope Specificity	**1-100/1942**
Isotype	**IgG**
Purity affinity purified by Protein A	
Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Nucleus (Probable).**
SIMILARITY	**Belongs to the DNA2/NAM7 helicase family.Contains 1 C3H1-type zinc finger.**
SUBUNIT	**Interacts with SMYD2 (By similarity). Interacts with POLR2A. Interacts with SMYD3; the interaction may bridge SMYD3 and RNA polymerase II.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
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.

HELZ Polyclonal Antibody - Additional Information

Gene ID 9931

Other Names
Probable helicase with zinc finger domain, 3.6.4.-, Down-regulated in human cancers protein,

HELZ, DRHC, KIAA0054

Target/Specificity
Expressed predominantly in thymus and brain. Expression is down-regulated in 28 of 95 tested cancer cell lines.

Dilution
IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>ICC~~N/A<br \>E~~N/A

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

HELZ Polyclonal Antibody - Protein Information

Name HELZ

Synonyms DRHC, KIAA0054

Function
May act as a helicase that plays a role in RNA metabolism in multiple tissues and organs within the developing embryo.

Cellular Location
Nucleus.

Tissue Location
Expressed predominantly in thymus and brain. Expression is down-regulated in 28 of 95 tested cancer cell lines

HELZ Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HELZ Polyclonal Antibody - Images

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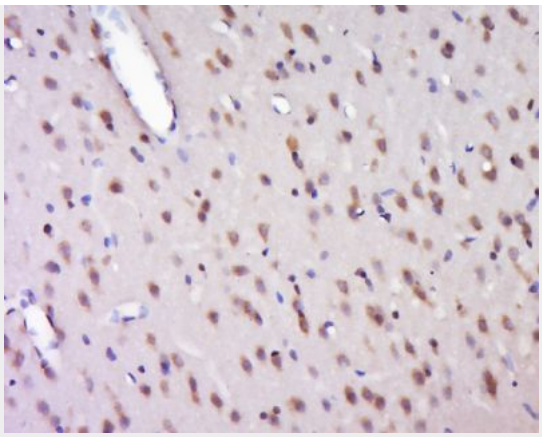
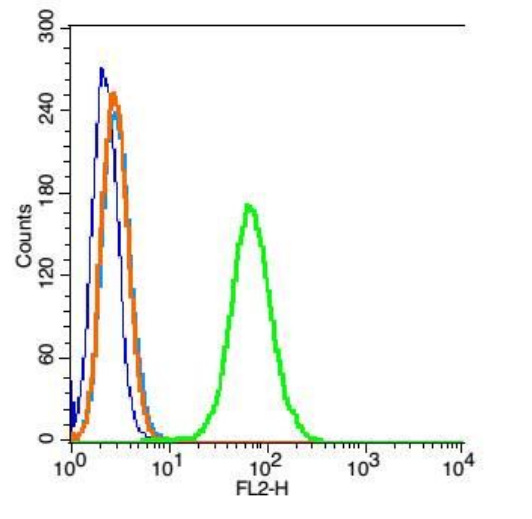


Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-HELZ Polyclonal Antibody, Unconjugated(bs-15450R) 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: 1 µg in 100 µL1X PBS containing 0.5% BSA(green).