

HELZ Rabbit pAb

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Catalog # AP56002

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P42694
Reactivity	Rat
Predicted	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	218970
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).
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.

Additional Information

Gene ID	9931
Other Names	ATP-dependent RNA helicase with zinc finger domain, 3.6.4.13, Down-regulated in human cancers protein, HELZ, DRHC, KIAA0054
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1 µg/Test
Storage	Store at -20 °C 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 °C.

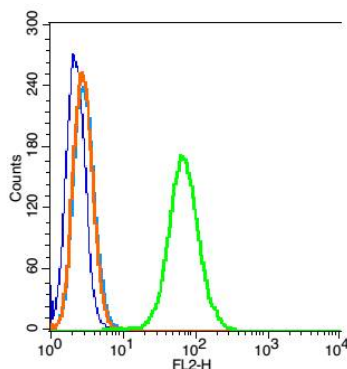
Protein Information

Name	HELZ
Synonyms	DRHC, KIAA0054
Function	ATP-dependent RNA helicase that promotes degradation of mRNAs via its association with the CCR4-NOT deadenylase complex, leading to deadenylation, decapping, and subsequent degradation of target mRNAs (PubMed: 31570513). Can repress translation independently of mRNA decay in a manner dependent on both the CCR4-NOT complex and the helicase DDX6 (PubMed: 31570513). Involved in promoting cell proliferation, translation initiation, and ribosomal protein S6 (RPS6) phosphorylation (PubMed: 21765940).
Cellular Location	Nucleus. Cytoplasm
Tissue Location	Expressed predominantly in thymus and brain. Expression is down-regulated in 28 of 95 tested cancer cell lines

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Images



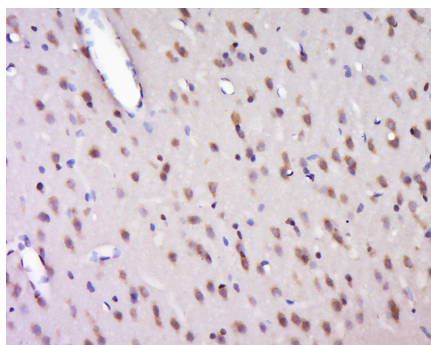
Blank control: RSC96(blue), the cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice..

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 µL 1X PBS containing 0.5% BSA(green).

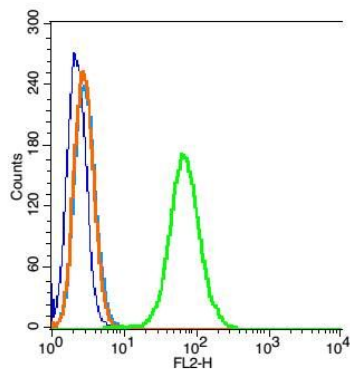


Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

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°C for 20 min;

Incubation: Anti-HELZ Polyclonal Antibody, Unconjugated(AP56002) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.