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

HELLS Rabbit pAb

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Catalog # AP58361

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9NRZ9
Predicted	Rat, Pig, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97074
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SMARCA6/HELLS
Epitope Specificity	451-550/838
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 (By similarity). Note=Closely associated with pericentric heterochromatin (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SMARCA6 gene encodes a lymphoid-specific helicase. Other helicases function in processes involving DNA strand separation, including replication, repair, recombination, and transcription. This protein is thought to be involved with cellular proliferation and may play a role in leukemogenesis.

Additional Information

Gene ID	3070
Other Names	Lymphoid-specific helicase, LSH, 3.6.4.-, Proliferation-associated SNF2-like protein, SWI/SNF2-related matrix-associated actin-dependent regulator of chromatin subfamily A member 6, SMARCA6, HELLS (HGNC:4861)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	HELLS (HGNC:4861)

Function	ATP-dependent chromatin remodeler that regulates chromatin accessibility, DNA methylation, and histone modifications. It facilitates de novo DNA methylation at repetitive sequences and promotes transcriptional silencing via recruitment of DNA methyltransferases (DNMTs) and histone deacetylases (HDACs), contributing to heterochromatin formation and repression of transposable elements (PubMed:30307408). Also involved in DNA repair by recruiting DNA damage response mediators to double-strand breaks in heterochromatin, promoting homologous recombination via RBBP8/CtIP-dependent end resection (PubMed:22946062, PubMed:31802118). During meiosis, it is recruited by PRDM9 to recombination hotspots, aiding chromatin opening (PubMed:32001511). Through these diverse roles, is crucial for processes such as development, differentiation, and genomic stability (PubMed:22946062, PubMed:31802118). Involved in regulation of the expansion or survival of lymphoid cells (By similarity).
Cellular Location	Nucleus. Chromosome. Note=Closely associated with pericentric heterochromatin.
Tissue Location	Highly expressed in proliferative tissues such as adult thymus and testis, and expressed at lower levels in uterus, small intestine, colon, and peripheral blood mononuclear cells. Also expressed in neoplastic cell lines including those derived from myeloid and lymphoid leukemias.

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