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HSH2D Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55229

Product Information

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	Q96JZ2
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39002
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HSH2D
Epitope Specificity	21-120/352
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	Cytoplasm. Nucleus.
SIMILARITY	Contains 1 SH2 domain.
Post-translational modifications	May be phosphorylated by FES and ACK1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	HSH2 is a 352 amino acid nuclear and cytoplasmic protein that is predominantly expressed in spleen and hematopoietic cells, such as peripheral blood leukocytes, and weakly expressed in prostate, thymus, heart, small intestine and placenta. Containing an SH2 domain, four PXXP polyproline sequences and two possible tyrosine phosphorylation sites, HSH2 interacts with tyrosine kinases Fes and ACK. Considered an adaptor protein, HSH2 participates in tyrosine kinase signaling and may be involved in the regulation of cytokine signaling and cytoskeletal reorganization in hematopoietic cells. HSH2 may also act to attenuate apoptosis through modulating the apoptotic response by promoting mitochondrial stability. HSH2 exists as two alternatively spliced isoforms and is encoded by a gene located on human chromosome 19p13.11.

Additional Information

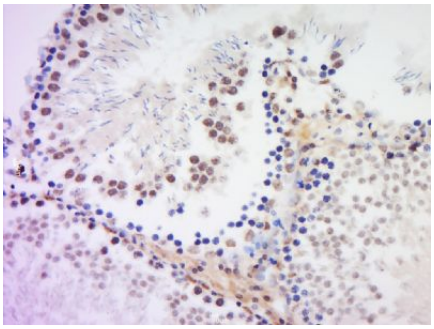
Gene ID	84941
Other Names	Hematopoietic SH2 domain-containing protein, Hematopoietic SH2 protein, Adaptor in lymphocytes of unknown function X, HSH2D, ALX
Target/Specificity	Predominantly expressed in spleen and hematopoietic cells such as peripheral blood leukocytes and weakly expressed in prostate, thymus, heart, small intestine and placenta.

Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
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.

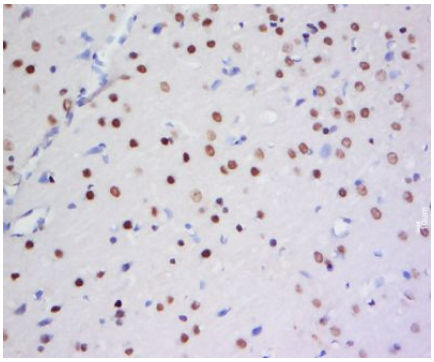
Protein Information

Name	HSH2D
Synonyms	ALX
Function	May be a modulator of the apoptotic response through its ability to affect mitochondrial stability (By similarity). Adapter protein involved in tyrosine kinase and CD28 signaling. Seems to affect CD28-mediated activation of the RE/AP element of the interleukin-2 promoter.
Cellular Location	Cytoplasm. Nucleus.
Tissue Location	Predominantly expressed in spleen and hematopoietic cells such as peripheral blood leukocytes and weakly expressed in prostate, thymus, heart, small intestine and placenta

Images



Tissue/cell: Rat testis 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-HSH2D Polyclonal Antibody, Unconjugated(AP55229) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



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-HSH2D Polyclonal Antibody, Unconjugated(AP55229) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining