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PROX-1-S514 Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2035e

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	Q92786
Other Accession	P48437
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB15208
Calculated MW	83203
Antigen Region	492-520

Additional Information

Gene ID	5629
Other Names	Prospero homeobox protein 1, Homeobox prospero-like protein PROX1, PROX-1, PROX1
Target/Specificity	This PROX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 492-520 amino acids from human PROX1.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PROX-1-S514 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PROX1
Function	Transcription factor involved in developmental processes such as cell fate

	determination, gene transcriptional regulation and progenitor cell regulation in a number of organs. Plays a critical role in embryonic development and functions as a key regulatory protein in neurogenesis and the development of the heart, eye lens, liver, pancreas and the lymphatic system. Involved in the regulation of the circadian rhythm. Represses: transcription of the retinoid-related orphan receptor RORG, transcriptional activator activity of RORA and RORG and the expression of RORA/G-target genes including core clock components: BMAL1, NPAS2 and CRY1 and metabolic genes: AVPR1A and ELOVL3.
Cellular Location	Nucleus {ECO:0000250|UniProtKB:P48437}. Note=RORG promotes its nuclear localization. {ECO:0000250|UniProtKB:P48437}
Tissue Location	Most actively expressed in the developing lens. Detected also in embryonic brain, lung, liver and kidney. In adult, it is more abundant in heart and liver than in brain, skeletal muscle, kidney and pancreas.

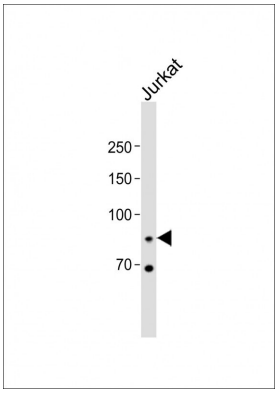
Background

Apolipoprotein H has been implicated in a variety of physiologic pathways including lipoprotein metabolism, coagulation, and the production of antiphospholipid autoantibodies. APOH may be a required cofactor for anionic phospholipid binding by the antiphospholipid autoantibodies found in sera of many patients with lupus and primary antiphospholipid syndrome, but it does not seem to be required for the reactivity of antiphospholipid autoantibodies associated with infections.

References

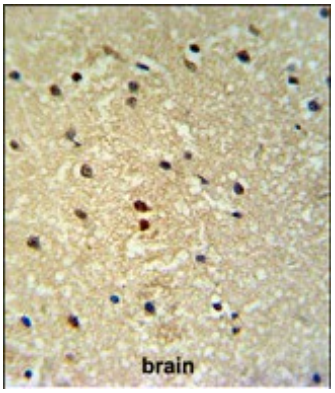
Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Zhang, C., et al. Clin. Chim. Acta 411 (5-6), 395-399 (2010)
Suresh, S., et al. FEBS J. 277(4):951-963(2010)

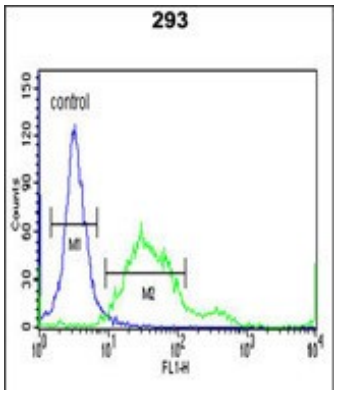
Images



All lanes: Anti-PROX-1-S514 Antibody at 1:1000 dilution + Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 83 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

PROX-1-S514 Antibody (Cat. #AP2035e) IHC analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PROX-1-S514 Antibody for immunohistochemistry. Clinical relevance has not been evaluated.





PROX-1-S514 Antibody (Cat. #AP2035e) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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