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ALAD Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6828b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	P13716
Other Accession	Q60HH9
Reactivity	Human
Predicted	Monkey, Mouse, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB20913
Calculated MW	36295
Antigen Region	244-272

Additional Information

Gene ID	210
Other Names	Delta-aminolevulinic acid dehydratase, ALADH, Porphobilinogen synthase, ALAD
Target/Specificity	This ALAD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 244-272 amino acids from the C-terminal region of human ALAD.
Dilution	WB~~1:1000 IHC-P~~1:100~500 FC~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
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	ALAD Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ALAD
Function	Catalyzes an early step in the biosynthesis of tetrapyrroles. Binds two

molecules of 5-aminolevulinate per subunit, each at a distinct site, and catalyzes their condensation to form porphobilinogen.

Cellular Location Cytoplasm, cytosol {ECO:0000250|UniProtKB:P10518}

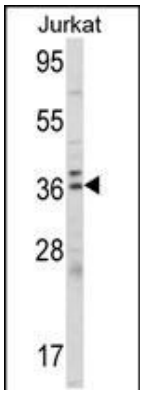
Background

The ALAD enzyme is composed of 8 identical subunits and catalyzes the condensation of 2 molecules of delta-aminolevulinate to form porphobilinogen (a precursor of heme, cytochromes and other hemoproteins). ALAD catalyzes the second step in the porphyrin and heme biosynthetic pathway; zinc is essential for enzymatic activity. ALAD enzymatic activity is inhibited by lead and a defect in the ALAD structural gene can cause increased sensitivity to lead poisoning and acute hepatic porphyria.

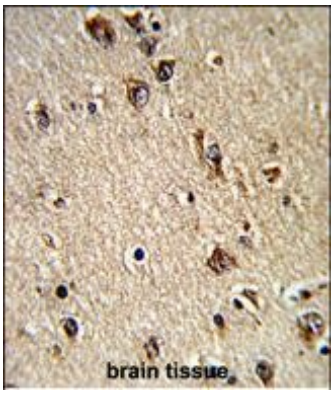
References

Guey,L.T., et.al., Eur. Urol. (2009)

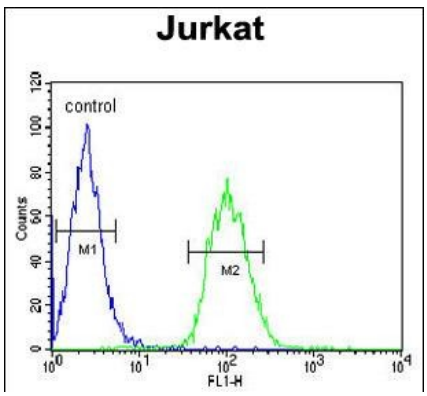
Images



Western blot analysis of ALAD Antibody (C-term) (Cat. #AP6828b) in Jurkat cell line lysates (35ug/lane). ALAD (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human brain tissue reacted with ALAD Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



ALAD Antibody (C-term) (Cat. #AP6828b) flow cytometric analysis of Jurkat 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'.