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ALAD Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP6828b

Specification

ALAD Antibody (C-term) - Product Information

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

ALAD Antibody (C-term) - 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
FC~~1:10~50
IHC-P~~1:50~100
WB~~1:1000
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.

ALAD Antibody (C-term) - Protein Information

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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.

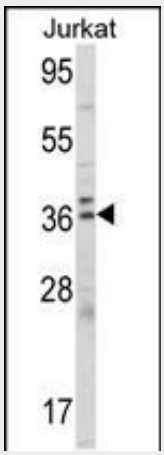
Cellular Location
Cytoplasm, cytosol {ECO:0000250|UniProtKB:P10518}

ALAD Antibody (C-term) - Protocols

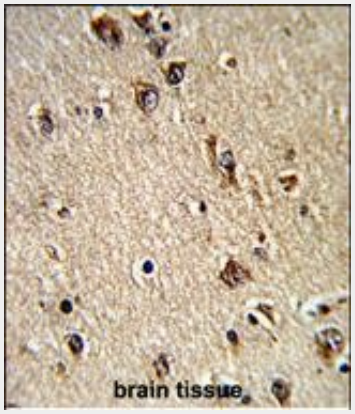
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ALAD Antibody (C-term) - 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.



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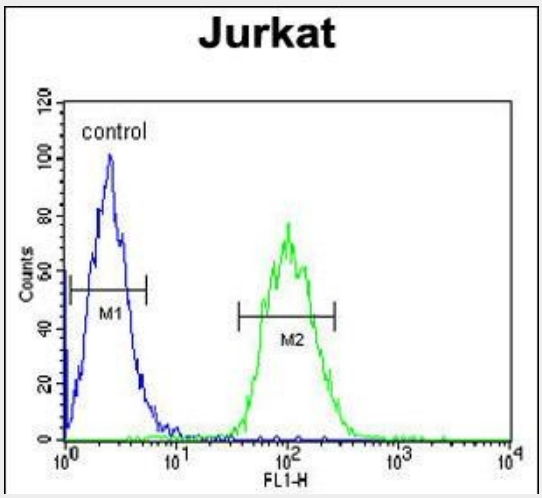
Formalin-fixed and paraffin-embedded human brain tissue reacted with ALAD Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



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.

ALAD Antibody (C-term) - 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.

ALAD Antibody (C-term) - References

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