

DPYS Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP13434b

Product Information

ApplicationWB, IHC-P, EPrimary AccessionQ14117Other AccessionNP_001376.1ReactivityHuman, Mouse

HostRabbitClonalityPolyclonalIsotypeRabbit IgGClone NamesRB21564Calculated MW56630Antigen Region454-482

Additional Information

Gene ID 1807

Other Names Dihydropyrimidinase, DHP, DHPase, Dihydropyrimidine amidohydrolase,

Hydantoinase, DPYS

Target/SpecificityThis DPYS antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 454-482 amino acids from the

C-terminal region of human DPYS.

Dilution WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.

Format Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

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 DPYS Antibody (C-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

Protein Information

Name DPYS

Function Catalyzes the second step of the reductive pyrimidine degradation, the

reversible hydrolytic ring opening of dihydropyrimidines. Can catalyze the

ring opening of 5,6-dihydrouracil to N-carbamyl-alanine and of

5,6-dihydrothymine to N-carbamyl-amino isobutyrate.

Tissue Location

Liver and kidney.

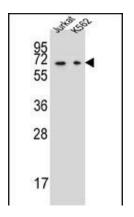
Background

Dihydropyrimidinase catalyzes the conversion of 5,6-dihydrouracil to 3-ureidopropionate in pyrimidine metabolism. Dihydropyrimidinase is expressed at a high level in liver and kidney as a major 2.5-kb transcript and a minor 3.8-kb transcript. Defects in the DPYS gene are linked to dihydropyrimidinuria.

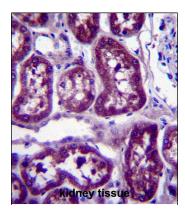
References

Kim, H.Y., et al. BMB Rep 43(8):547-553(2010) van Kuilenburg, A.B., et al. Biochim. Biophys. Acta 1802 (7-8), 639-648 (2010): Fidlerova, J., et al. Cancer Chemother. Pharmacol. 65(4):661-669(2010) Thomas, H.R., et al. Pharmacogenet. Genomics 18(1):25-35(2008) Thomas, H.R., et al. Pharmacogenet. Genomics 17(11):973-987(2007)

Images



DPYS Antibody (C-term) (Cat. #AP13434b) western blot analysis in Jurkat, K562 cell line lysates (35ug/lane). This demonstrates the DPYS antibody detected the DPYS protein (arrow).



DPYS Antibody (C-term) (Cat. #AP13434b)immunohistochemistry analysis in formalin fixed and paraffin embedded human kidney tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of DPYS Antibody (C-term) for immunohistochemistry. Clinical relevance has not been

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evaluated.