

DPYS Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AW5575

Product Information

Application IHC-P, WB **Primary Accession** Q14117 Reactivity Human Host Rabbit Clonality Polyclonal Calculated MW 56630 Isotype Rabbit IgG **Antigen Source HUMAN**

Additional Information

Gene ID 1807

Antigen Region 454-482

Other Names Dihydropyrimidinase, DHP, DHPase, Dihydropyrimidine amidohydrolase,

Hydantoinase, DPYS

Dilution IHC-P~~1:100~500 WB~~1:1000

Target/Specificity This 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.

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.

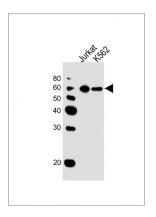
Background

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.

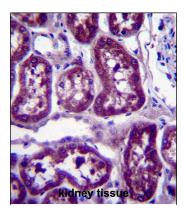
References

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



All lanes: Anti-DPYS Antibody (C-term) at 1:1000 dilution Lane 1: Jurkat whole cell lysate Lane 2: K562 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 57 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



DPYS Antibody (C-term) (Cat. #AW5575)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 evaluated.

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