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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.

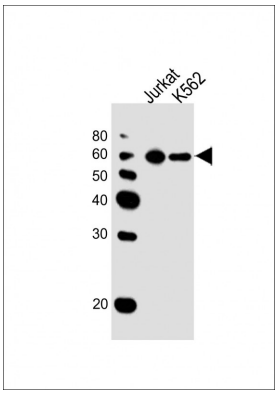
Background

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.

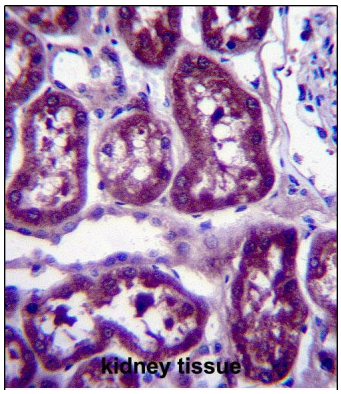
References

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.