abcam

Product datasheet

Anti-DPYS antibody ab205039

1 References 2 Images

Overview

Product name	Anti-DPYS antibody
Description	Rabbit polyclonal to DPYS
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Recombinant fragment corresponding to Human DPYS aa 100-300. Database link: **Q14117** Run BLAST with Run BLAST with
Positive control	Human fetal liver lysate. Human fetal pancreas tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Lyophilized:Reconstitute in 200 µL sterile H2O.
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 1% BSA, 98% PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab205039 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/200 - 1/1000. Predicted molecular weight: 57 kDa.
IHC-P		1/100 - 1/500.

Target

Function Catalyzes the second step of the reductive pyrimidine degradation, the reversible hydrolytic ring opening of dihydropyrimidines. Can catalyzes the ring opening of 5,6-dihydrouracil to N-carbamyl-alanine and of 5,6-dihydrothymine to N-carbamyl-amino isobutyrate.

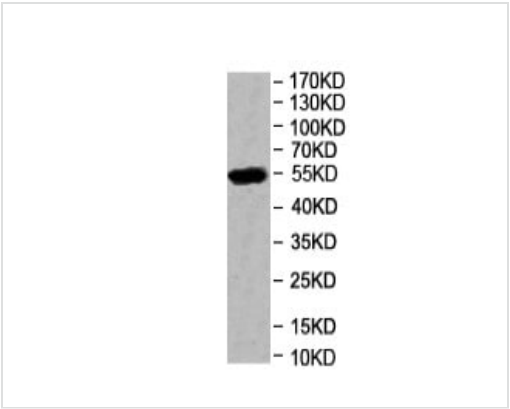
Tissue specificity Liver and kidney.

Involvement in disease Defects in DPYS are the cause of dihydropyrimidinase deficiency (DHPD) [MIM:222748]. DHPD is an autosomal recessive disorder characterized by dihydropyrimidinuria and associated with a variable clinical phenotype: epileptic or convulsive attacks, dysmorphic features and severe developmental delay, and congenital microvillous atrophy.

Sequence similarities Belongs to the DHOase family. Hydantoinase/dihydropyrimidinase subfamily.

Post-translational modifications Carbamylation allows a single lysine to coordinate two zinc ions.

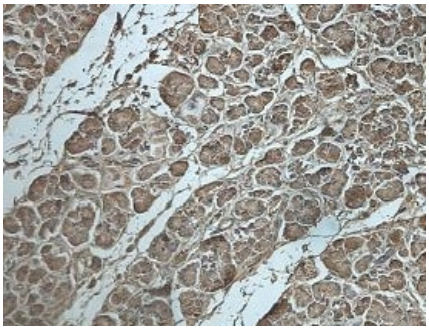
Images



Western blot - Anti-DPYS antibody (ab205039)

Anti-DPYS antibody (ab205039) at 1/500 dilution + human fetal liver lysate

Predicted band size: 57 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DPYS antibody (ab205039)

Immunohistochemical analysis of formalin/PFA-fixed paraffin-embedded human fetal pancreas tissue sections labeling DPYS with ab205039 at a 1/100 dilution.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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