




Product datasheet

Anti-HMBS/PBGD antibody ab232927

4 Images

Overview

Product name	Anti-HMBS/PBGD antibody
Description	Rabbit polyclonal to HMBS/PBGD
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IHC-P, WB
Species reactivity	Reacts with: Human, Pig Predicted to work with: Mouse, Rat, Cow 
Immunogen	Recombinant fragment (His-T7-tag) corresponding to Human HMBS/PBGD aa 50-350. (Expressed in E.coli). Database link: P08397 <div>  Run BLAST with  Run BLAST with </div>
Positive control	WB: Recombinant human HMBS/PBGD protein; HeLa, HEK-293T and HepG2 cell lysates; Pig heart lysate. IHC-P: Human pancreatic cancer tissue. ICC/IF: HeLa cells.
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
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: 7.40 Preservative: 0.02% Sodium azide Constituents: 44.12% PBS, 55.77% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Purification notes	ab232927 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.

Clonality	Polyclonal
Isotype	IgG

Applications

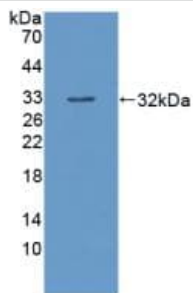
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab232927 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 - 20 µg/ml.
IHC-P		Use a concentration of 5 - 20 µg/ml.
WB		Use a concentration of 0.5 - 2 µg/ml. Predicted molecular weight: 39 kDa.

Target

Function	Tetrapolymerization of the monopyrrole PBG into the hydroxymethylbilane pre-uroporphyrinogen in several discrete steps.
Tissue specificity	Isoform 1 is ubiquitously expressed. Isoform 2 is found only in erythroid cells.
Pathway	Porphyria metabolism; protoporphyrin-IX biosynthesis; coproporphyrinogen-III from 5-aminolevulinate: step 2/4.
Involvement in disease	Defects in HMBS are the cause of acute intermittent porphyria (AIP) [MIM:176000]. AIP is a form of porphyria. Porphyrias are inherited defects in the biosynthesis of heme, resulting in the accumulation and increased excretion of porphyrins or porphyrin precursors. They are classified as erythropoietic or hepatic, depending on whether the enzyme deficiency occurs in red blood cells or in the liver. AIP is an autosomal dominant form of hepatic porphyria characterized by acute attacks of neurological dysfunctions with abdominal pain, hypertension, tachycardia, and peripheral neuropathy. Most attacks are precipitated by drugs, alcohol, caloric deprivation, infections, or endocrine factors.
Sequence similarities	Belongs to the HMBS family.
Cellular localization	Cytoplasm.

Images



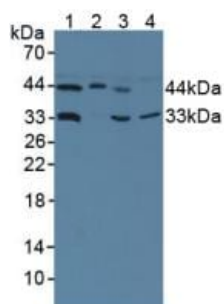
Western blot - Anti-HMBS/PBGD antibody
(ab232927)

Anti-HMBS/PBGD antibody (ab232927) at 2 µg/ml + Recombinant human HMBS/PBGD protein

Secondary

HRP-Linked Guinea pig anti-Rabbit at 1/2000 dilution

Predicted band size: 39 kDa



Western blot - Anti-HMBS/PBGD antibody
(ab232927)

All lanes : Anti-HMBS/PBGD antibody (ab232927) at 2 µg/ml

Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate

Lane 2 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cell lysate

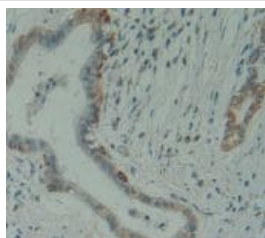
Lane 3 : HepG2 (human liver hepatocellular carcinoma cell line) cell lysate

Lane 4 : Pig heart lysate

Secondary

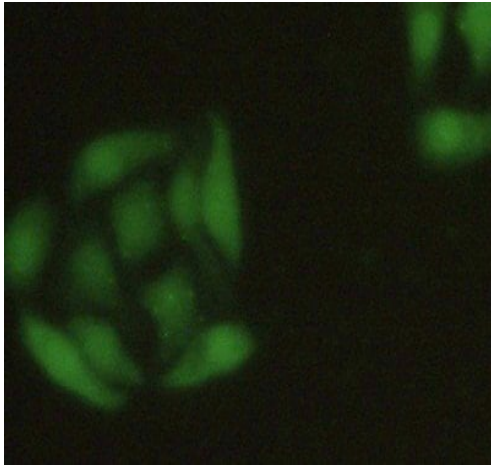
All lanes : HRP-Linked Guinea pig anti-Rabbit at 1/2000 dilution

Predicted band size: 39 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HMBS/PBGD antibody
(ab232927)

Paraffin-embedded human pancreatic cancer tissue stained for HMBS/PBGD using ab232927 at 10 µg/ml in immunohistochemical analysis. DAB staining.



HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for HMBS/PBGD (green) using ab232927 at 20 µg/ml in ICC/IF, followed by FITC staining.

Immunocytochemistry/ Immunofluorescence - Anti-HMBS/PBGD antibody (ab232927)

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

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