




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 85-337. (Expressed in E.coli). Sequence: LEKNEVDLVVHSLKDLPTVLPPGFTIGAICKRENPHDAVVF HPKFVVGKTL ETLPEKSVVGTSSLRRAAQLQRKFPHLEFRSIRGNLNTRL RKLDEQQEFS AIIATAGLQRMGWHNRVQQLHPEECMYAVGQGALGVEV RAKDQDILD VGVLDHPETLLRCIAERAFLRHLEGGCSVPVAVHTAMKD GQLYLTGGVWS LDGSDSIQETMQATIHVPAQHEDGPEDDPQLVGITARNIPR GPQLAAQNL GIS Database link: P08397  Run BLAST with  Run BLAST with
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	This product was previously labelled as HMBS

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in

our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

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, as well as customer reviews and Q&As.

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: PBS, 50% Glycerol
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

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.
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Tissue specificity

Isoform 1 is ubiquitously expressed. Isoform 2 is found only in erythroid cells.

Pathway

Porphyrin metabolism; protoporphyrin-IX biosynthesis; coproporphyrinogen-III from 5-aminolevulinic acid: step 2/4.

Involvement in disease

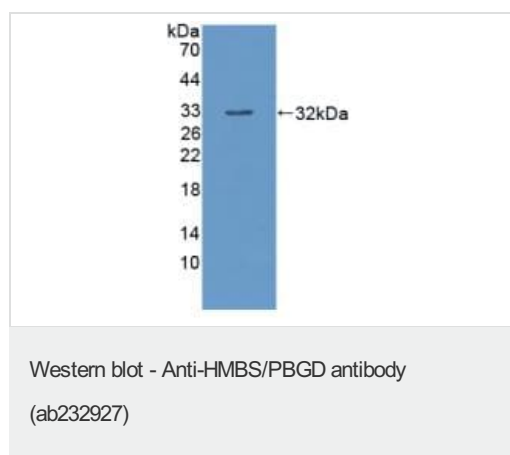
Defects in HMBS are the cause of acute intermittent porphyria (AIP) [MIM:176000]. AIP is a form of porphyria. Porphyrias are inherited defects in the biosynthesis of heme, resulting in the accumulation and increased excretion of porphyrins or porphyrin precursors. They are classified as erythropoietic 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.

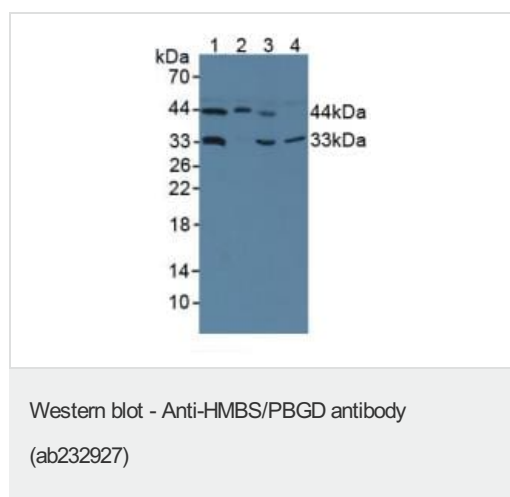
Images

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



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

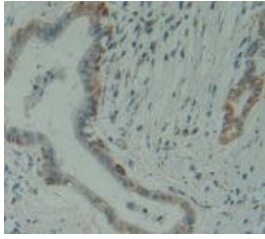
Lane 3 : HepG2 (human liver hepatocellular carcinoma cell line) cell lysate

Lane 4 : Pig heart lysate

Secondary

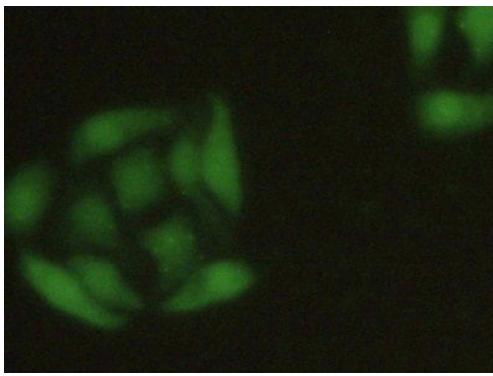
All lanes : HRP-Linked Guinea pig anti-Rabbit at 1/2000 dilution

Predicted band size: 39 kDa



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

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



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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