abcam

Product datasheet

Anti-HMBS antibody ab91331

1 Image

Overview

Product name	Anti-HMBS antibody
Description	Rabbit polyclonal to HMBS
Host species	Rabbit
Tested applications	**Suitable for:** WB, ELISA
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic peptide selected from the C-terminal region of Human HMBS conjugated to KLH (NP_000181.2).
Positive control	T47D cell line lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: PBS
Purity	Immunogen affinity purified
Purification notes	ab91331 is purified through a protein A column, followed by peptide affinity purification.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab91331** in the following tested applications.

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

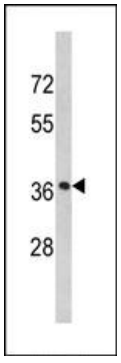
Application	Abreviews	Notes
WB		
ELISA		

Application notes	ELISA: 1/1000. WB: 1/100 - 1/500. Predicted molecular weight: 39 kDa. Not yet tested in other applications. Optimal dilutions/concentrations should be determined by the end user.

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	Porphyrin 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 antibody (ab91331)

Anti-HMBS antibody (ab91331) at 1/100 dilution + T47D cell line lysate at 35 µg

Predicted band size: 39 kDa

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