

Product datasheet

Anti-HPD antibody [EPR5297] ab133515

Recombinant RabMAb

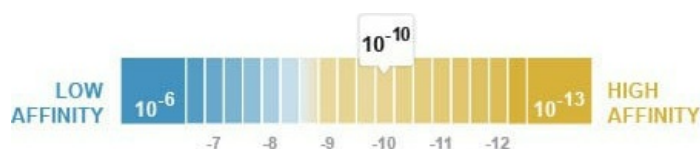
[1 References](#) [7 Images](#)

Overview

Product name	Anti-HPD antibody [EPR5297]
Description	Rabbit monoclonal [EPR5297] to HPD
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P Unsuitable for: Flow Cyt, ICC/IF or IP
Species reactivity	Reacts with: Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HepG2 and Fetal liver lysates. Human kidney tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse: We have preliminary internal testing data to indicate this antibody may not react with this species. Please contact us for more information.</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. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
Dissociation constant (K _D)	K _D = 2.57 x 10 ⁻¹⁰ M



[Learn more about K_D](#)

Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5297
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab133515 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

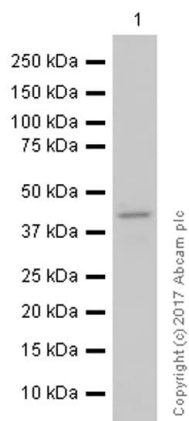
Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 45 kDa.
IHC-P		1/2000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. For unpurified use at 1/250-1/50 See IHC antigen retrieval protocols . The rat recommendation is based on the WB results. This antibody may not be suitable for IHC with rat samples.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IP.

Target

Function	Key enzyme in the degradation of tyrosine.
Pathway	Amino-acid degradation; L-phenylalanine degradation; acetoacetate and fumarate from L-phenylalanine: step 3/6.
Involvement in disease	Tyrosinemia 3 Hawkinsinuria
Sequence similarities	Belongs to the 4HPPD family.

Images



Western blot - Anti-HPD antibody [EPR5297]
(ab133515)

Anti-HPD antibody [EPR5297] (ab133515) at 1/1000 dilution
(purified) + HepG2 (Human hepatocellular carcinoma epithelial cell)
whole cell lysates at 20 µg

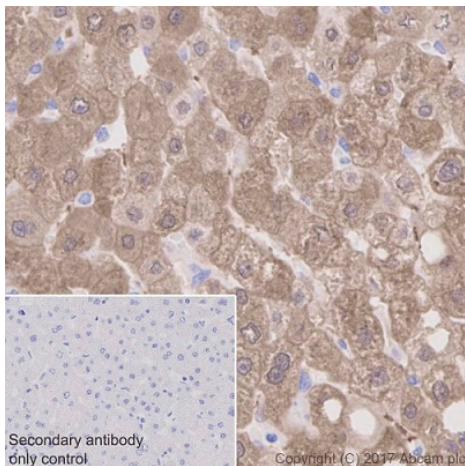
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 45 kDa

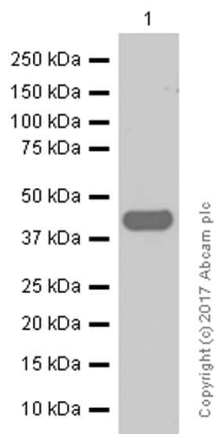
Observed band size: 45 kDa

Blocking and diluting buffer: 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-HPD antibody [EPR5297]
(ab133515)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human liver tissue sections labeling HPD with purified ab133515 at 1:2000 dilution (0.76 µg/ml). Heat mediated antigen retrieval was performed using EDTA Buffer, pH9.0. Tissue was counterstained with Hematoxylin. ImmunoHistoProbe one step HRP Polymer (ready to use) secondary antibody was used at 1:0 dilution. PBS instead of the primary antibody was used as the negative control.



Western blot - Anti-HPD antibody [EPR5297]
(ab133515)

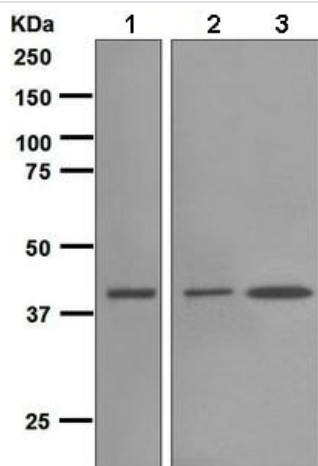
Anti-HPD antibody [EPR5297] (ab133515) at 1/5000 dilution
(purified) + Rat liver tissue lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 45 kDa

Blocking and diluting buffer: 5% NFDM/TBST



Western blot - Anti-HPD antibody [EPR5297]
(ab133515)

All lanes : Anti-HPD antibody [EPR5297] (ab133515) at 1/1000 dilution (unpurified)

Lane 1 : HepG2 cell lysate

Lane 2 : Fetal liver tissue lysate

Lane 3 : Human kidney lysate

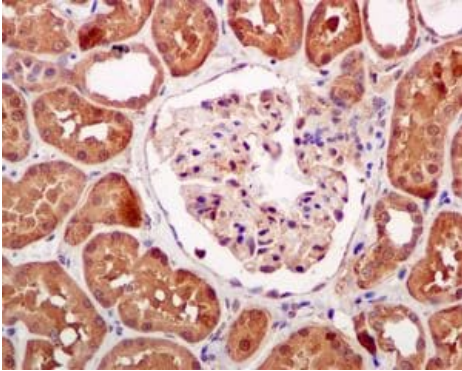
Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat-anti-rabbit HRP at 1/2000 dilution

Developed using the ECL technique.

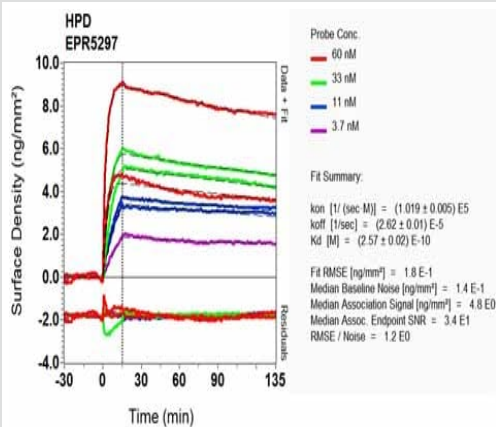
Predicted band size: 45 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HPD antibody [EPR5297] (ab133515)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labelling HPD with unpurified ab133515 at 1/250 dilution.

Heat mediated antigen retrieval was performed with citrate buffer pH 6 before commencing with IHC staining protocol.



OIR-D Scanning - Anti-HPD antibody [EPR5297] (ab133515)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-HPD antibody [EPR5297] (ab133515)

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

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