

Product datasheet

Anti-HGD antibody [EPR7874] ab131035

Recombinant **RabMAb**

[2 References](#) [4 Images](#)

Overview

Product name	Anti-HGD antibody [EPR7874]
Description	Rabbit monoclonal [EPR7874] to HGD
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human HGD aa 400-500 (C terminal). The exact sequence is proprietary.
Positive control	Caco-2, HepG2, and Human fetal liver lysates; Human kidney tissue; HepG2 cells
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, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR7874
Isotype IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab131035 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. Detects a band of approximately 50 kDa (predicted molecular weight: 50 kDa).
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/250.

Application notes Is unsuitable for Flow Cyt.

Target

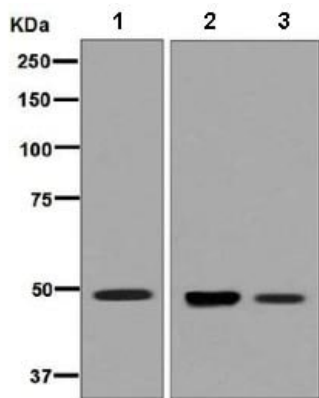
Tissue specificity Highest expression in the prostate, small intestine, colon, kidney and liver.

Pathway Amino-acid degradation; L-phenylalanine degradation; acetoacetate and fumarate from L-phenylalanine: step 4/6.

Involvement in disease Defects in HGD are the cause of alkaptonuria (AKU) [MIM:203500]. AKU is an autosomal recessive error of metabolism characterized by an increase in the level of homogentisic acid. The clinical manifestations of AKU are urine that turns dark on standing and alkalization, black ochronotic pigmentation of cartilage and collagenous tissues, and spine arthritis.

Sequence similarities Belongs to the homogentisate dioxygenase family.

Images



Western blot - Anti-HGD antibody [EPR7874] (ab131035)

All lanes : Anti-HGD antibody [EPR7874] (ab131035) at 1/1000 dilution

Lane 1 : Caco-2 cell lysate

Lane 2 : HepG2 cell lysate

Lane 3 : Human fetal liver lysate

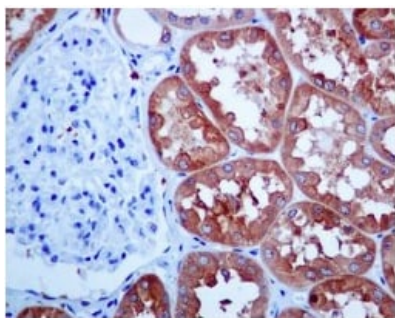
Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 50 kDa

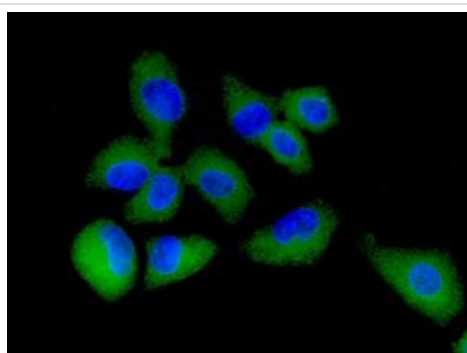
Observed band size: 50 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-HGD antibody [EPR7874] (ab131035)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labelling HGD with ab131035 antibody at 1/100 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-HGD antibody [EPR7874] (ab131035)

Immunofluorescence analysis of HepG2 cells labelling HGD with ab131035 antibody at 1/100 dilution.

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-HGD antibody [EPR7874] (ab131035)

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