

Product datasheet

Anti-IMPDH2 antibody [EPR8364(B)] ab131158

Recombinant RabMAb

★★★★☆ 1 Abreviews 8 References 4 Images

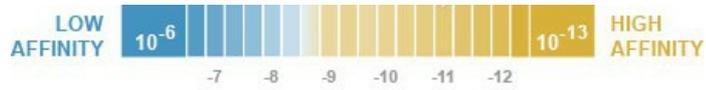
Overview

Product name	Anti-IMPDH2 antibody [EPR8364(B)]
Description	Rabbit monoclonal [EPR8364(B)] to IMPDH2
Host species	Rabbit
Specificity	The immunogen used to raise this antibody shares 79% homology with Human IMPDH1. Cross-reactivity with this protein has not been confirmed experimentally.
Tested applications	Suitable for: WB, IP, IHC-P, Flow Cyt, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human IMPDH2 aa 100-200. The exact sequence is proprietary.
Positive control	K562, HepG2, HeLa and NCI-H460 cell lysates; Human colon 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>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K _D = 2.20 x 10 ⁻¹¹ M





[Learn more about \$K_D\$](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol, 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR8364(B)
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab131158** in the following tested applications.

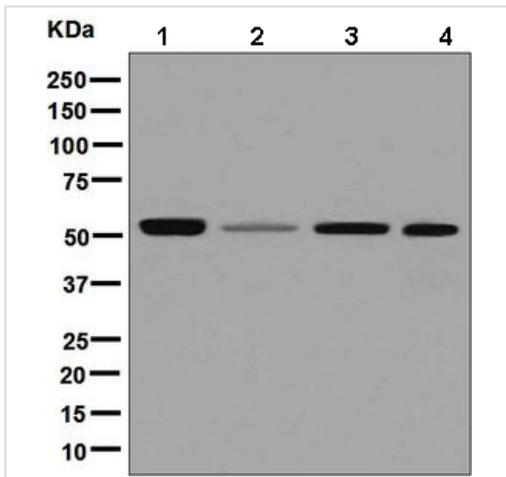
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Predicted molecular weight: 56 kDa.
IP		1/10 - 1/100.
IHC-P	★★★★☆	1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt		1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/100 - 1/250.

Target

Function	Rate limiting enzyme in the de novo synthesis of guanine nucleotides and therefore is involved in the regulation of cell growth. It may also have a role in the development of malignancy and the growth progression of some tumors.
Tissue specificity	IMP type I is the main species in normal leukocytes and type II predominates over type I in the tumor.
Pathway	Purine metabolism; XMP biosynthesis via de novo pathway; XMP from IMP: step 1/1.
Sequence similarities	Belongs to the IMPDH/GMPR family. Contains 2 CBS domains.
Post-translational modifications	The N-terminus is blocked.

Images



Western blot - Anti-IMPDH2 antibody [EPR8364(B)] (ab131158)

All lanes : Anti-IMPDH2 antibody [EPR8364(B)] (ab131158) at 1/1000 dilution

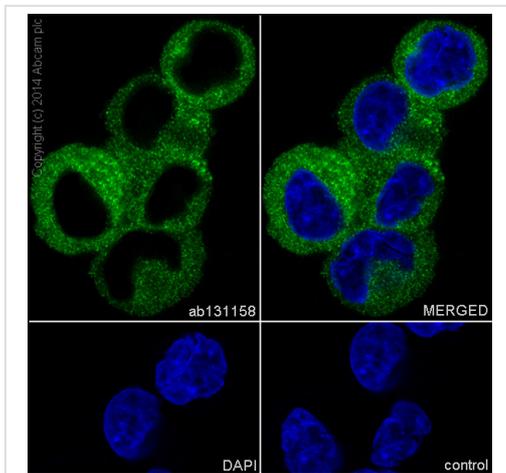
Lane 1 : K562 cell lysate

Lane 2 : HepG2 cell lysate

Lane 3 : HeLa cell lysate

Lane 4 : NCI-H460 cell lysate

Predicted band size: 56 kDa

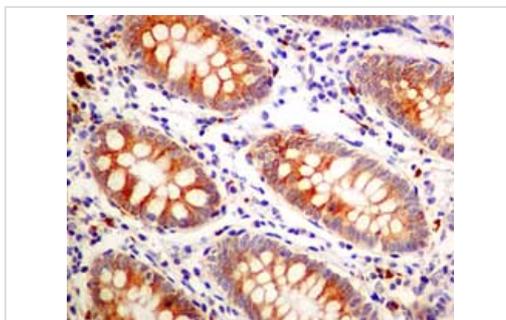


Immunocytochemistry/ Immunofluorescence - Anti-IMPDH2 antibody [EPR8364(B)] (ab131158)

ab131158 staining IMPDH2 in K562 (human chronic myelogenous leukemia) cells by ICC/IF

(Immunocytochemistry/immunofluorescence). Cells were fixed with 4% PFA and permeabilized with 0.1% triton X-100. Samples were incubated with primary antibody at a dilution of 1/500. A goat anti rabbit IgG (Alexa Fluor® 488) (ab150077) was used as the secondary antibody at a dilution of 1/1000.

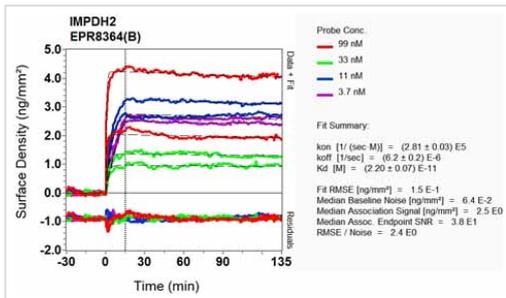
DAPI was used as a nuclear counterstain and the negative control was PBS only.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IMPDH2 antibody [EPR8364(B)] (ab131158)

Immunohistochemical analysis of paraffin-embedded Human colon tissue labelling IMPDH2 with ab131158 at 1/100 dilution.

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



Other - Anti-IMPDPH2 antibody [EPR8364(B)]
(ab131158)

Equilibrium dissociation constant (K_D)

Learn more about K_D

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

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