

Product datasheet

Anti-15-PGDH antibody [EPR14332-19] - BSA and Azide free ab232625

Recombinant RabMAb

3 Images

Overview

Product name	Anti-15-PGDH antibody [EPR14332-19] - BSA and Azide free
Description	Rabbit monoclonal [EPR14332-19] to 15-PGDH - BSA and Azide free
Host species	Rabbit
Specificity	This antibody showed low sensitivity in inhouse WB tests, so we suggest optimizing experimental protocols (increasing lysate amount, using lower dilution or higher sensitivity ECL substrate) to improve results.
Tested applications	Suitable for: WB Unsuitable for: ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Caco-2 and SW480 whole cell lysates. Mouse and Rat small intestine.
General notes	<p>ab232625 is the carrier-free version of ab187161.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <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

For more information [see here](#).

Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to [RabMAb[®] patents](#).

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14332-19
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab232625 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		Use at an assay dependent concentration. Detects a band of approximately 25 kDa (predicted molecular weight: 29 kDa).

Application notes Is unsuitable for ICC/IF.

Target

Function	Prostaglandin inactivation. Contributes to the regulation of events that are under the control of prostaglandin levels. Catalyzes the NAD-dependent dehydrogenation of lipoxin A4 to form 15-oxo-lipoxin A4. Inhibits in vivo proliferation of colon cancer cells.
Tissue specificity	Detected in colon epithelium (at protein level).
Involvement in disease	Defects in HPGD are the cause of primary hypertrophic osteoarthopathy autosomal recessive (PHOAR) [MIM:259100]; also known as pachydermoperiostosis autosomal recessive. Primary hypertrophic osteoarthopathy is characterized by digital clubbing, osterarthopathy, variable features of pachydermia, delayed closure of the fontanels, and congenital heart disease. Defects in HPGD are the cause of craniosteoarthopathy (COA) [MIM:259100]. Clinical features include infantile onset of swelling of the joints, digital clubbing, hyperhidrosis, delayed closure of the fontanels, periostosis, and variable patent ductus arteriosus. Pachydermia is not a prominent feature. Defects in HPGD are a cause of isolated congenital nail clubbing (ICNC) [MIM:119900]; also called clubbing of digits or hereditary acropachy. ICNC is a rare genodermatosis characterized by enlargement of the nail plate and terminal segments of the fingers and toes, resulting from

proliferation of the connective tissues between the nail matrix and the distal phalanx. It is usually symmetrical and bilateral (in some cases unilateral). In nail clubbing usually the distal end of the nail matrix is relatively high compared to the proximal end, while the nail plate is complete but its dimensions and diameter more or less vary in comparison to normal. There may be different fingers and toes involved to varying degrees. Some fingers or toes are spared, but the thumbs are almost always involved.

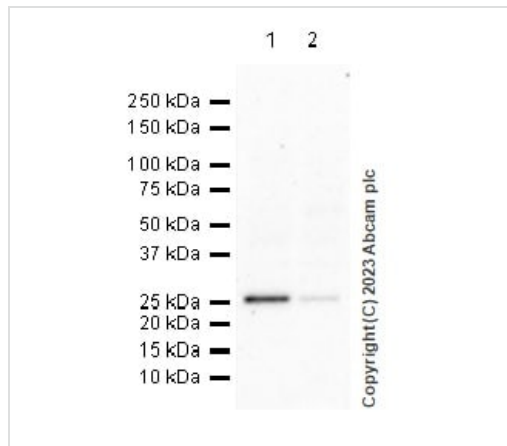
Sequence similarities

Belongs to the short-chain dehydrogenases/reductases (SDR) family.

Cellular localization

Cytoplasm.

Images



Western blot - Anti-15-PGDH antibody [EPR14332-19] - BSA and Azide free (ab232625)

All lanes : Anti-15-PGDH antibody [EPR14332-19] ([ab187161](#)) at 1/1000 dilution

Lane 1 : Caco-2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysate

Lane 2 : SW480 (Human colorectal adenocarcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

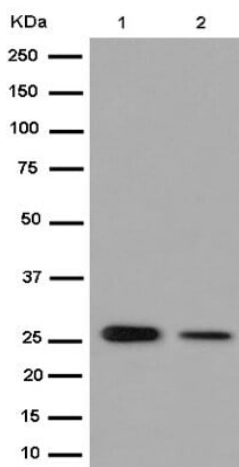
Predicted band size: 29 kDa

Observed band size: 29 kDa

Exposure time: 180 seconds

Blocking buffer and dilution buffer concentration: 5% NFDM/TBST.

This antibody showed low sensitivity in inhouse WB tests, so we suggest optimizing experimental protocols (increasing lysate amount, using lower dilution or higher sensitivity ECL substrate) to improve results.



Western blot - Anti-15-PGDH antibody [EPR14332-19] - BSA and Azide free (ab232625)

All lanes : Anti-15-PGDH antibody [EPR14332-19] (**ab187161**) at 1/1000 dilution

Lane 1 : Mouse small intestine lysate

Lane 2 : Rat small intestine lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 29 kDa

Observed band size: 25 kDa

Exposure time: 180 seconds

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

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

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