abcam

Product datasheet

Anti-Prostaglandin dehydrogenase 1 antibody ab118185

1 References 4 Images

Overview

Product name	Anti-Prostaglandin dehydrogenase 1 antibody
Description	Mouse monoclonal to Prostaglandin dehydrogenase 1
Host species	Mouse
Tested applications	**Suitable for:** WB, IP, IHC-P, Sandwich ELISA
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein, corresponding to amino acids 1-267 of Human Prostaglandin dehydrogenase 1 (AAH18986), with a proprietary tag.
Positive control	Recombinant Protein. Prostaglandin dehydrogenase 1 transfected 293T cell line. Human placenta tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.20 Constituent: 99% PBS
Purity	Protein A purified
Clonality	Monoclonal
Isotype	IgG2a
Light chain type	kappa

Applications

Our Abpromise guarantee covers the use of **ab118185** 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 a concentration of 1 - 5 µg/ml. Predicted molecular weight: 29 kDa.
IP		Use at an assay dependent concentration.
IHC-P		Use a concentration of 3 µg/ml.
Sandwich ELISA		Use at an assay dependent concentration.

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 osteoathropathy autosomal recessive (PHOAR) [MIM:259100]; also known as pachydermoperiostosis autosomal recessive. Primary hypertrophic osteoarthropathy is characterized by digital clubbing, osterarthropathy, variable features of pachydermia, delayed closure of the fontanels, and congenital heart disease.
Defects in HPGD are the cause of cranioosteoarthropathy (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.

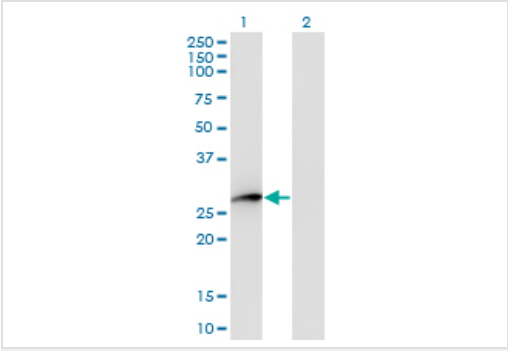
Sequence similarities

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

Cellular localization

Cytoplasm.

Images



Western blot - Anti-Prostaglandin dehydrogenase 1 antibody (ab118185)

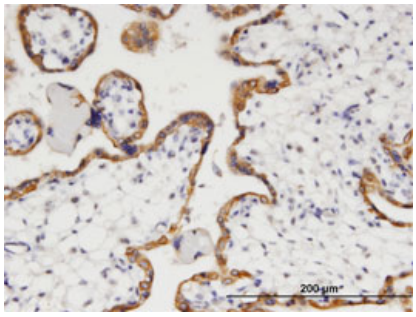
All lanes : Anti-Prostaglandin dehydrogenase 1 antibody (ab118185) at 5 µg/ml

Lane 1 : HPGD transfected 293T cell line lysate
Lane 2 : Non transfected 293T cell line lysate

Lysates/proteins at 25 µg per lane.

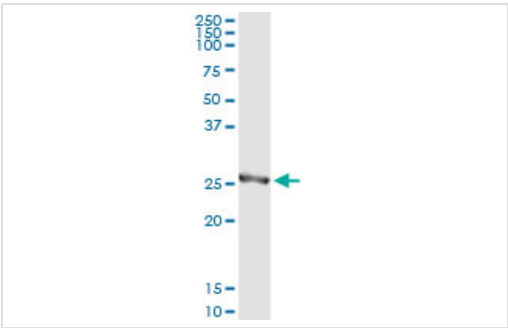
Developed using the ECL technique.

Predicted band size: 29 kDa



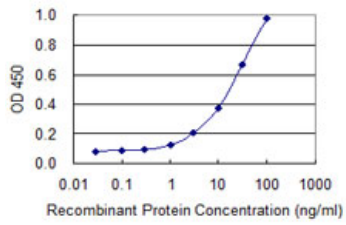
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Prostaglandin dehydrogenase 1 antibody (ab118185)

ab118185 at 3 µg/ml staining Prostaglandin dehydrogenase 1 in Formalin-Fixed, Paraffin-Embedded Human Placenta tissue by Immunohistochemistry.



Immunoprecipitation - Anti-Prostaglandin dehydrogenase 1 antibody (ab118185)

Immunoprecipitation of Prostaglandin dehydrogenase 1 from transfected lysate using ab118185 and Protein A Magnetic beads. Detection by WB utilised an alternative anti-Prostaglandin dehydrogenase 1 rabbit polyclonal antibody.



Sandwich ELISA - Anti-Prostaglandin dehydrogenase 1 antibody (ab118185)

ab118185 at 10 µg/ml as a capture antibody.

The detection limit for recombinant tagged Prostaglandin dehydrogenase 1 is 0.3 ng/ml.

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