abcam

Product datasheet

Anti-Prostaglandin dehydrogenase 1 antibody [1C12] ab118005

1 Image

Overview

Product name	Anti-Prostaglandin dehydrogenase 1 antibody [1C12]
Description	Mouse monoclonal [1C12] to Prostaglandin dehydrogenase 1
Host species	Mouse
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human
Immunogen	Full length recombinant Human Prostaglandin dehydrogenase 1 produced in HEK293T cells (NP_000851).
Positive control	HEK293T cell lysate transfected with pCMV6-ENTRY Prostaglandin dehydrogenase 1 cDNA.
General notes	Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 1% BSA, 50% Glycerol, 48% PBS
Purity	Protein G purified
Purification notes	ab118005 is purified from Mouse ascites fluid by affinity chromatography.
Clonality	Monoclonal
Clone number	1C12
Isotype	IgG1

Applications

Our Abpromise guarantee covers the use of **ab118005** in the following tested applications.

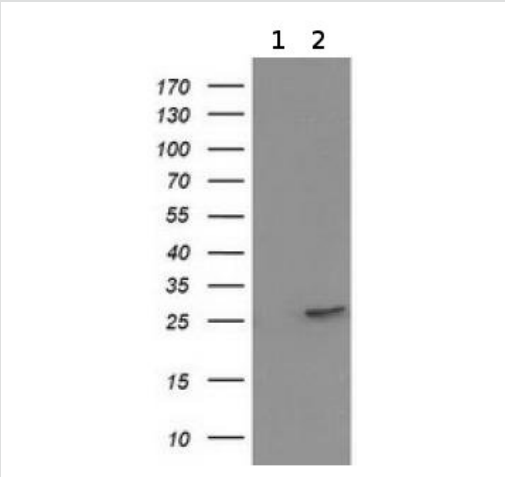
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/2000. Predicted molecular weight: 29 kDa.

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 [1C12] (ab118005)

All lanes : Anti-Prostaglandin dehydrogenase 1 antibody [1C12] (ab118005) at 1/2000 dilution

Lane 1 : HEK293T lysate transfected with pCMV6-ENTRY control cDNA
Lane 2 : HEK293T lysate transfected with pCMV6-ENTRY Prostaglandin dehydrogenase 1 cDNA

Lysates/proteins at 5 µg per lane.

Predicted band size: 29 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone (RC204160)

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