

Rabbit anti-Mouse 15-PGDH Monoclonal Antibody | anti-HPGD antibody

Recombinant Anti-15-PGDH Antibody, Rabbit Monoclonal

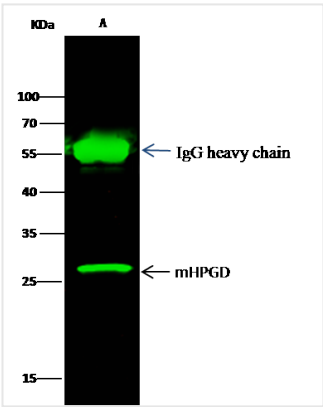
CATALOG # AAA257174	HOST Rabbit	REACTIVITY Mouse	APPLICATIONS Immunoprecipitation, Western Blot
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PRODUCT SYNONYMS

15-PGDH; Monoclonal Antibody; Recombinant Anti-15-PGDH Antibody; Rabbit Monoclonal; HPGD/15-PGDH Antibody; Rabbit MAb; hydroxyprostaglandin dehydrogenase 15-(NAD); Anti-15-PGDH Antibody; Anti-AV026552 Antibody; anti-HPGD antibody

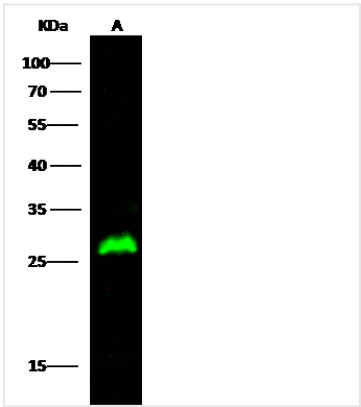
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	101
Specificity	Mouse HPGD/15-PGDH
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-HPGD antibody	IP (Immunoprecipitation), WB (Western Blot)
Antibody Type	Recombinant Antibody
Immunogen	Recombinant Mouse HPGD/15-PGDH protein
Conjugation	Unconjugated
Preparation	This antibody was obtained from a rabbit immunized with purified, recombinant Mouse HPGD/15-PGDH (rM HPGD/15-PGDH).
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IP (Immunoprecipitation)

Mouse HPGD was immunoprecipitated using: Lane A: 0.5 mg Caco-2 Whole Cell Lysate, 2 μ L anti-Mouse HPGD rabbit monoclonal antibody and 15 μ L of 50 % Protein G agarose. Primary antibody: Anti-Mouse HPGD rabbit monoclonal antibody, at 1:200 dilution. Secondary antibody: DyLight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 29 kDa. Observed band size: 29 kDa.



WB (Western Blot)

Anti-HPGD rabbit monoclonal antibody at 1:500 dilution. Lane A: LOVO Whole Cell Lysate. Lysates/proteins at 30 μ g per lane. Secondary: Goat Anti-Rabbit IgG H&L (DyLight 800) at 1:10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 29 kDa. Observed band size: 27 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-HPGD antibody	15-hydroxyprostaglandin dehydrogenase [NAD ⁺], also known as Prostaglandin dehydrogenase 1, HPGD, and PGDH1, is a member of the short-chain dehydrogenases/reductases (SDR) family. Prostaglandins (PGs) play a key role in the onset of labor in many species and regulate uterine contractility and cervical dilatation. Therefore, the regulation of prostaglandin output by PG synthesizing and metabolizing enzymes in the human myometrium may determine uterine activity patterns in human labor both at preterm and at term. Prostaglandin dehydrogenase (PGDH) metabolizes prostaglandins (PGs) to render them inactive. HPGD is down-regulated by cortisol, dexamethasone, and betamethasone and down-regulated in colon cancer. It is up-regulated by TGFB1. HPGD contributes to the regulation of events that are under the control of prostaglandin levels. HPGD catalyzes the NAD-dependent dehydrogenation of lipoxin A4 to form 15-oxo-lipoxin A4. and inhibits in vivo proliferation of colon cancer cells. Defects in HPGD are the cause of primary hypertrophic osteoarthropathy autosomal recessive (PHOAR), cranio-osteoarthropathy (COA), and isolated congenital nail clubbing.
References	Patel, FA. et al., 2003, J. Clin. Endocrinol. Metab. 88: 2922-33. McKeown KJ, et al., 2003, J. Clin. Endocrinol. Metab. 88 (4): 1737-41. Yan, M. et al., 2004, Proc. Natl. Acad. Sci. USA. 101: 17468-73. Tariq, M. et al., 2009, J Med Genet. 46 (1): 14-20.

NCBI AND UNIPROT INFORMATION

NCBI GI #	81901849
NCBI GeneID	15446
UniProt Accession #	Q8VCC1; Q61106
Molecular Weight	29,181 Da
NCBI Official Full Name	15-hydroxyprostaglandin dehydrogenase
NCBI Official Synonym Full Names	hydroxyprostaglandin dehydrogenase 15 (NAD)
NCBI Official Symbol	Hpgd
NCBI Official Synonym Symbols	15-PGDH; AV026552
NCBI Protein Information	15-hydroxyprostaglandin dehydrogenase [NAD(+)]
UniProt Protein Name	15-hydroxyprostaglandin dehydrogenase [NAD(+)]
UniProt Gene Name	Hpgd

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/15-pgdh-antibody-clone-101-immunoprecipitation-western-blot-elisa/257174>