

Mouse anti-Human PGD Monoclonal Antibody | anti-PGD antibody

PGD antibody

CATALOG # AAA48230	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunofluorescence, Immunocytochemistry, Western Blot, ELISA
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PRODUCT SYNONYMS

PGD; Monoclonal Antibody; PGD antibody; Phosphogluconate dehydrogenase; 6PGD; Phosphogluconate dehydrogenase 0610042A05Rik; Au019875; C78335; 6 phosphogluconate dehydrogenase; decarboxylating; OTTMuSP00000011754; RP23-249G3.4; ; anti-PGD antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2b, k
Clone Number	AT46B3
Purity/Purification	By protein-A affinity chromatography
Form/Format	Liquid. In phosphate-buffered saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol.
Concentration	1 mg/ml (varies by lot)
Sequence Length	483
Applicable Applications for anti-PGD antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot), ELISA
Antigen Species	Human
Immunogen	Recombinant human PGD (1-483aa) purified from E. coli
Preparation and Storage	Can be stored at +2°C to +8°C for up to 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



IF (Immunofluorescence)

ICC/IF analysis of PGD in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human PGD antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).



WB (Western Blot)

The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PGD antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system. Lane 1.: HeLa cell lysate Lane 2.: MCF7 cell lysate Lane 3.: 293T cell lysate Lane 4.: A549 cell lysate Lane 5.: Jurkat cell lysate

ADDITIONAL INFORMATION

Related Product Information for anti-PGD antibody	PGD (Phosphogluconate dehydrogenas), also known as 6PGD, is a 483 amino acid enzyme that is involved in the pentose phosphate shunt. Pentose is required for nucleic acid biosynthesis and the pentose phosphate cycle is a major source of NADPH. PGD deficiency increases the level of erythrocyte pyruvate kinase (PK) activity and reduces glutathione synthetase (GSH), resulting in hemolysis. Defects in PGD are generally asymptomatic and are inherited in an autosomal dominant fashion.
Product Categories/Family for anti-PGD antibody	Signal Transduction; Metabolism
References	Le TD., et al. (2010) Proc Natl Acad Sci U S A. 107 (7): 3198-203.; Tagen M., et al. (2009) J Immunol. 183 (10): 6313-9;

NCBI AND UNIPROT INFORMATION

NCBI GI #	40068518
NCBI GeneID	5226
NCBI Accession #	NP_002622
NCBI GenBank Nucleotide #	NM_002631.3
UniProt Accession #	P52209; Q9BWD8; A8K2Y9; B4DQJ8
NCBI Official Full Name	6-phosphogluconate dehydrogenase, decarboxylating isoform 1
NCBI Official Synonym Full Names	phosphogluconate dehydrogenase
NCBI Official Symbol	PGD
NCBI Official Synonym Symbols	6PGD
NCBI Protein Information	6-phosphogluconate dehydrogenase, decarboxylating
UniProt Protein Name	6-phosphogluconate dehydrogenase, decarboxylating
UniProt Gene Name	PGD
UniProt Synonym Gene Names	PGDH

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/pgd-antibody-clone-at46b3-immunofluorescence-immunocytochemistry-western-blot-elisa/48230>