PGD Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PGD, Polyclonal Antibody
Full Product Name	PGD, ID (PGD, PGDH, 6-phosphogluconate dehydrogenase, decarboxylating) (MaxLight 750)
Product Gene Name	anti-PGD antibody
Product Synonym Names	PGD; PGDH; 6-phosphogluconate dehydrogenase; decarboxylating
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	53,140 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (10459085..10480201). Location: 1p36.22
OMIM	172200
3D Structure	ModBase 3D Structure for P52209
Immunogen	PGD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 242-271 amino acids from the Central region of human PGD.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-PGD antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-PGD antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-PGD antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-PGD antibody	6-phosphogluconate dehydrogenase is the second dehydrogenase in the pentose phosphate shunt. Deficiency of this enzyme is generally asymptomatic, and the inheritance of this disorder is autosomal dominant. Hemolysis results from combined deficiency of 6-phosphogluconate dehydrogenase and 6-phosphogluconolactonase suggesting a synergism of the two enzymopathies.
Product References and Citations for anti-PGD antibody	Lehner, B., et al. Genome Res. 14(7):1315-1323(2004). Kerimov, B.F. Vopr. Med. Khim. 48(5):490-496(2002). Rippa, M., et al. Biochim. Biophys. Acta 1429(1):83-92(1998).

Other Notes	Small volumes of anti-PGD antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PGD purchase	MBS6333022 is an antibody targeting PGD. Also known as PGD, ID (PGD, PGDH, 6-phosphogluconate dehydrogenase, decarboxylating) (MaxLight 750). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PGD. It may not necessarily be applicable to this product.

NCBI GI #	40068518
NCBI GeneID	5226
NCBI Accession #	NP_002622.2
UniProt Primary Accession #	P52209
UniProt Secondary Accession #	Q9BWD8; A8K2Y9
UniProt Related Accession #	P52209
GenBank Nucleotide #	NM_002631.2
NCBI Official Full Name	6-phosphogluconate dehydrogenase, decarboxylating
NCBI Official Synonym Full Names	phosphogluconate dehydrogenase
NCBI Official Symbol	PGD
NCBI Official Synonym Symbols	6PGD
UniProt Protein Name	6-phosphogluconate dehydrogenase, decarboxylating
Protein Family	Prostaglandin D2 receptor
UniProt Gene Name	PGD
UniProt Synonym Gene Names	PGDH
UniProt Entry Name	6PGD_HUMAN
NCBI Protein Information	6-phosphogluconate dehydrogenase, decarboxylating
UniProt Comments for PGD	PGD: an oxidative carboxylase that catalyses the decarboxylating reduction of 6-phosphogluconate into ribulose 5-phosphate in the presence of NADP. This reaction is a component of the hexose mono-phosphate shunt and pentose phosphate pathways. Protein type: Oxidoreductase; Carbohydrate Metabolism - pentose phosphate pathway; Other Amino Acids Metabolism - glutathione; EC 1.1.1.44 Chromosomal Location of Human Ortholog: 1p36.22 Cellular Component: nucleus; cytosol Molecular Function: phosphogluconate dehydrogenase (decarboxylating) activity; NADP binding Biological Process: pentose-phosphate shunt; pentose-phosphate shunt, oxidative branch; carbohydrate metabolic process; pathogenesis; D-gluconate metabolic process; pentose biosynthetic process
Research Articles on PGD	**1.** Glycolytic cancer cells lacking 6-phosphogluconate dehydrogenase metabolize glucose to induce senescence
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