

Mouse PGP Monoclonal Antibody | anti-PGP antibody

PGP Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA311997	Mouse	Human, Mouse, Rat	Immunohistochemistry, Immunofluorescence, Immunoprecipitation, Western Blot

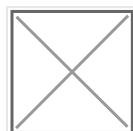
PRODUCT SYNONYMS

PGP; Monoclonal Antibody; PGP Antibody; PGP antibody; PGP_HUMAN antibody; PGPase antibody; Phosphoglycolate phosphatase antibody; anti-PGP antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Clone Number	4G2
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-PGP antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), IP (Immunoprecipitation), WB (Western Blot)
Immunogen	Peptide
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



Application Data

Immunoperoxidase staining of formalin fixed, paraffin-embedded human liver tissue showing cytoplasmic staining of hepatocytes.



WB (Western Blot)

Western blot analysis of PGP expression in human heart (A) and human skeletal muscle (B) tissue extracts and K-562 whole cell lysate (C).

ADDITIONAL INFORMATION

Related Product Information for anti-PGP antibody	PGP (phosphoglycolate phosphatase), also known as PGPase, is a 321 amino acid enzyme belonging to the HAD-like hydrolase superfamily and the CbbY/cbbZ/gph/yieH family. PGP is detected in all tissues including red cells, lymphocytes and cultured fibroblasts, with highest activity found in skeletal and cardiac muscle. PGP is considered an important regulatory enzyme on oxygen transport by indirectly affecting the level of red cell 2, 3-diphosphoglycerate. The gene encoding PGP maps to human chromosome 16, which encodes over 900 genes and comprises nearly 3% of the human genome. The GAN gene is located on chromosome 16 and, with mutation, may lead to giant axonal neuropathy, a nervous system disorder characterized by increasing malfunction with growth. The rare disorder Rubinstein-Taybi syndrome is also associated with chromosome 16, as is Crohns disease, which is a gastrointestinal inflammatory condition.
Product Categories/Family for anti-PGP antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	108796653
NCBI GeneID	283871
NCBI Accession #	NP_001035830.1
NCBI GenBank Nucleotide #	NM_001042371.2
UniProt Accession #	A6NDG6
Molecular Weight	34,006 Da
NCBI Official Full Name	phosphoglycolate phosphatase
NCBI Official Synonym Full Names	phosphoglycolate phosphatase
NCBI Official Symbol	PGP
NCBI Official Synonym Symbols	PGPase
NCBI Protein Information	phosphoglycolate phosphatase
UniProt Protein Name	Phosphoglycolate phosphatase
UniProt Gene Name	PGP
UniProt Synonym Gene Names	PGP; PGPase
UniProt Entry Name	PGP_HUMAN

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/pgp-antibody-clone-4g2-immunohistochemistry-immunofluorescence-immunoprecipitation-western-blot-elisa/311997>