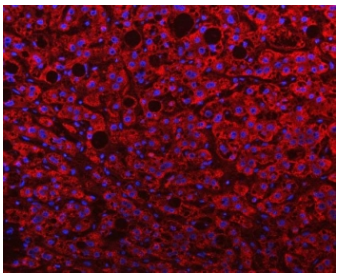
# PGP Antibody / Glycerol-3-phosphate phosphatase (RQ8108)

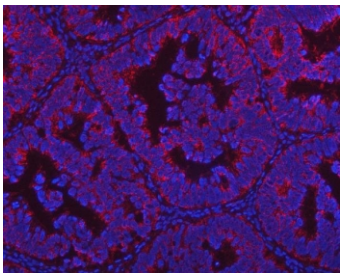
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ8108 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

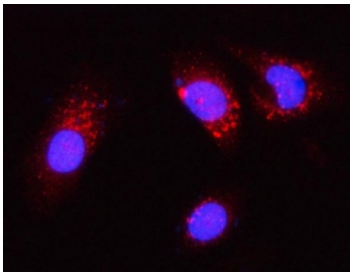
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Antigen affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose |
| **UniProt** | A6NDG6 |
| **Localization** | Cytoplasm |
| **Applications** | Western Blot : 0.5-1ug/ml<br>Immunohistochemistry (FFPE) : 2-5ug/ml<br>Immunofluorescence : 5ug/ml<br>Flow Cytometry : 1-3ug/million cells<br>Direct ELISA : 0.1-0.5ug/ml |
| **Limitations** | This PGP antibody is available for research use only. |



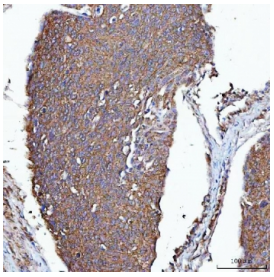
Immunofluorescent staining of FFPE human liver cancer with PGP antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



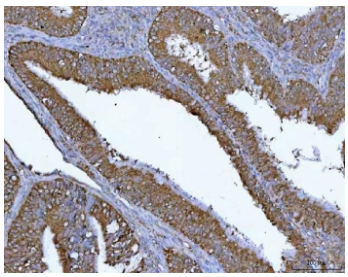
Immunofluorescent staining of FFPE human intestinal cancer with PGP antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA buffer for 20 min.



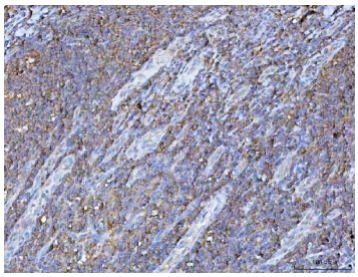
Immunofluorescent staining of FFPE human PC-3 cells with PGP antibody (red) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



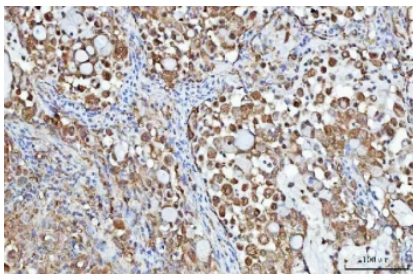
IHC staining of FFPE human esophageal squamous carcinoma tissue with PGP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



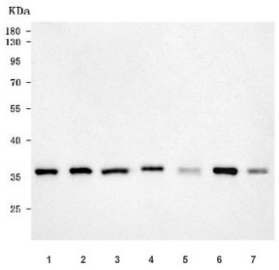
IHC staining of FFPE human endometrial adenocarcinoma tissue with PGP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



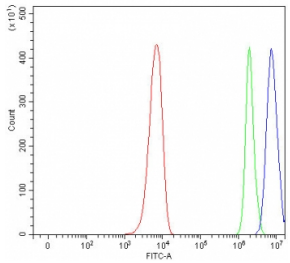
IHC staining of FFPE human tonsil tissue with PGP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human lung cancer tissue with PGP antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.




Western blot testing of 1) human HeLa, 2) human MCF7, 3) human 293T, 4) rat brain, 5) rat lung, 6) mouse brain and 7) mouse lung tissue lysate with PGP antibody. Predicted molecular weight ~34 kDa.




Flow cytometry testing of fixed and permeabilized human PC-3 cells with PGP antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PGP antibody.

## Description

PGP (Phosphoglycolate phosphatase), also called Glycerol-3-phosphate phosphatase and Aspartate-based ubiquitous Mg(2+)-dependent phosphatase (AUM), belongs to the HAD-like hydrolase superfamily. It is an essential intermediate in the biosynthetic pathway of cardiolipin and a mitochondrial-specific phospholipid regulating the membrane integrity and activities of the organelle. PGP catalyzes the formation of phosphatidylglycerol from phosphatidylglycerophosphate.

## Application Notes

Optimal dilution of the PGP antibody should be determined by the researcher.

## Immunogen

E. coli-derived recombinant human protein (amino acids M1-G321) was used as the immunogen for the PGP antibody.

## Storage

After reconstitution, the PGP antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com