

## AP53299PU-N

## Polyclonal Antibody to PIGP (N-term) - Aff - Purified

### Alternate names:

DCRC, DCRC-S, DSCR5, DSCRC, Down syndrome critical region protein 5, Down syndrome critical region protein C, Phosphatidylinositol N-acetylglucosaminyltransferase subunit P

### Quantity:

0.4 ml

### Concentration:

lot specific.

### Background:

The PIGP gene encodes an enzyme involved in the first step of glycosylphosphatidylinositol (GPI)-anchor biosynthesis. The GPI-anchor is a glycolipid found on many blood cells that serves to anchor proteins to the cell surface. The encoded protein is a component of the GPI-N-acetylglucosaminyltransferase complex that catalyzes the transfer of N-acetylglucosamine (GlcNAc) from UDP-GlcNAc to phosphatidylinositol (PI). This gene is located in the Down Syndrome critical region on chromosome 21 and is a candidate for the pathogenesis of Down syndrome. Alternatively spliced transcript variants encoding different isoforms have been described.

### Uniprot ID:

[P57054](#)

### NCBI:

[NP\\_710148](#)

### GeneID:

[51227](#)

### Host / Isotype:

Rabbit / Ig

### Immunogen:

Synthetic peptide - KLH conjugated - corresponding to the N-terminal region (between 2-30 aa) of human PIGP.

### Format:

**State:** Liquid purified Ig fraction

**Purification:** Purified through a Protein A column followed by peptide affinity purification

**Buffer System:** PBS with 0.09% (W/V) Sodium azide

### Applications:

**Western blot:** 1/1000.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

### Specificity:

This antibody recognizes PIGP at N-term.

### Species Reactivity:

**Tested:** Human

### Add. Information:

**Molecular Weight:** 18059 Da

### Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

### General Readings:

Rose, J.E. et al., Mol. Med. 16 (7-8): 247-253 (2010)

Ferrando-Miguel, R. et al., Amino Acids 26(3): 255-261 (2004)

Choi, D.K. et al., Mamm. Genome 12(5): 347-351 (2001)

Kinoshita, T. et al., Curr Opin Chem Biol 4(6): 632-638 (2000)  
Watanabe, R. et al., EMBO J. 19(16): 4402-4411 (2000)

#### Pictures:

Western blot analysis in T47D cell line lysates (35ug/lane) using PIGP antibody Cat.-No. AP53299PU-N (N-term). This demonstrates the PIGP antibody detected the PIGP protein (arrow).

