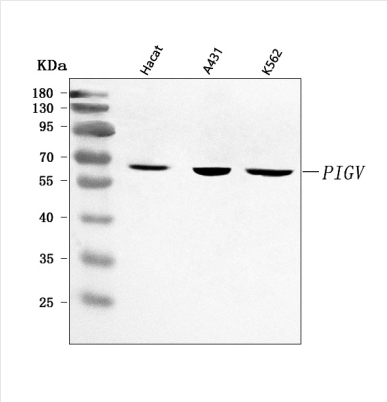
PIGV Antibody – Rabbit Polyclonal

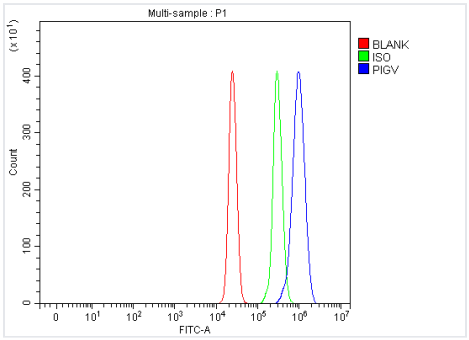
PRODUCT OVERVIEW

Product Name	PIGV, Polyclonal Antibody
Full Product Name	Anti-PIGV Antibody Picoband
Product Gene Name	anti-PIGV antibody
Product Synonym Names	RecQ mediated genome instability 2; RecQ-mediated genome instability protein 2; hRMI2; BLM-associated protein of 18 kDa; BLAP18; RMI2; C16orf75
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Purity/Purification	Immunogen affinity purified.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.
Molecular Weight	55,713 Da
OMIM	610274
3D Structure	ModBase 3D Structure for Q9NUD9
Immunogen	E coli-derived human PIGV recombinant protein (Position: Q26-Y470).
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Essential component of the RMI complex, a complex that plays an important role in the processing of homologous recombination intermediates. It is required to regulate sister chromatid segregation and to limit DNA crossover. Essential for the stability, localization, and function of BLM, TOP3A, and complexes containing BLM. In the RMI complex, it is required to target BLM to chromatin and stress-induced nuclear foci and mitotic phosphorylation of BLM.
Product Categories/Family for anti-PIGV antibody	Primary Antibodies; Chromatin Binding Proteins; DNA/RNA; DNA/RNA Binding; DNA Damage & Repair; Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-PIGV antibody	Western Blot (WB), Flow Cytometry (FC/FACS), ELISA (EIA)
Application Notes for anti-PIGV antibody	WB: 0.25-0.5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x1x10^6 cells, Human ELISA: 0.1-0.5ug/ml
Related Product Information for anti-PIGV antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.

Product References and Citations for anti-PIGV antibody	1. Horn, D., Krawitz, P., Mannhardt, A., Korenke, G. C., Meinecke, P. Hyperphosphatasia-mental retardation syndrome due to PIGV mutations: expanded clinical spectrum. Am. J. Med. Genet. 155A: 1917-1922, 2011.2. Kang, J. Y. Hong, Y., Ashida, H., Shishioh, N., Murakami, Y., Morita, Y. S., Maeda, Y., Kinoshita, T. PIG-V involved in transferring the second mannose in glycosylphosphatidylinositol. J. Biol. Chem. 280: 9489-9497, 2005.3. Krawitz, P. M., Schweiger, M. R., Rodelsperger, C., Marcelis, C., Kolsch, U., Meisel, C., Stephani, F., Kinoshita, T., Murakami, Y., Bauer, S., Isau, M., Fischer, A., and 17 others. Identity-by-descent filtering of exome sequence data identifies PIGV mutations in hyperphosphatasia mental retardation syndrome. Nature Genet. 42: 827-829, 2010.
Other Notes	Small volumes of anti-PIGV 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 PIGV purchase	MBS1758948 is an antibody targeting PIGV. Also known as Anti-PIGV Antibody Picoband. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-PIGV antibody
Figure 1. Western blot analysis of PIGV using anti-PIGV antibody (MBS1758948).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human Hacat whole cell lysates,Lane 2: human A431 whole cell lysates,Lane 3: human K562 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PIGV antigen affinity purified polyclonal antibody (#MBS1758948) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (#MBS176460) with Tanon 5200 system. A specific band was detected for PIGV at approximately 60 kDa. The expected band size for PIGV is at 56 kDa.



Flow Cytometry (FC/FACS) of anti-PIGV antibody
Figure 2. Flow Cytometry analysis of U937 cells using anti-PIGV antibody (MBS1758948).Overlay histogram showing U937 cells stained with MBS1758948 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PIGV Antibody (MBS1758948, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (MBS177405, 5-10ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL DETAILS

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

NCBI GI #	322309865
NCBI GeneID	55650
NCBI Accession #	NP_001189483.1
UniProt Primary Accession #	Q9NUD9
UniProt Secondary Accession #	Q5JYG7; Q5JYG8; Q5JYG9; Q9NX26; D3DPL2
UniProt Related Accession #	Q9NUD9
GenBank Nucleotide #	NM_001202554.1
NCBI Official Full Name	GPI mannosyltransferase 2
NCBI Official Synonym Full Names	phosphatidylinositol glycan anchor biosynthesis, class V
NCBI Official Symbol	PIGV

NCBI Official Synonym Symbols	PIG-V; HPMRS1; GPI-MT-II
UniProt Protein Name	GPI mannosyltransferase 2
UniProt Synonym Protein Names	GPI mannosyltransferase II; GPI-MT-II; Phosphatidylinositol-glycan biosynthesis class V protein; PIG-V
Protein Family	GPI mannosyltransferase
UniProt Gene Name	PIGV
UniProt Synonym Gene Names	GPI-MT-II; PIG-V
UniProt Entry Name	PIGV_HUMAN
NCBI Protein Information	GPI mannosyltransferase 2; Ybr004c homolog; GPI mannosyltransferase II; dol-P-Man dependent GPI mannosyltransferase
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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