Datasheet for ABIN7600964

# anti-PIGV antibody (AA 26-470)

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## Overview

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| Quantity: | 100 µg |
| Target: | PIGV |
| Binding Specificity: | AA 26-470 |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This PIGV antibody is un-conjugated |
| Application: | ELISA, Western Blotting (WB), Flow Cytometry (FACS) |

## Product Details

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| Purpose: | Anti-PIGV Antibody Picoband® |
| Immunogen: | E.coli-derived human PIGV recombinant protein (Position: Q26-Y470). |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins. |
| Characteristics: | Anti-PIGV Antibody Picoband® (ABIN7600964). Tested in ELISA, Flow Cytometry, WB applications. This antibody reacts with Human. 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. |
| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | PIGV |
| Alternative Name: | PIGV (PIGV Products) |
| Background: | Synonyms: RecQ-mediated genome instability protein 2, hRMI2, BLM-associated protein of 18 kDa, BLAP18, RMI2, C16orf75<br>Background: GPI mannosyltransferase 2 is an enzyme that in humans is encoded by the PIGV gene. This gene encodes a mannosyltransferase enzyme involved in the biosynthesis of glycosylphosphatidylinositol (GPI). GPI is a complex glycolipid that functions as a membrane anchor for many proteins and plays a role in multiple cellular processes including protein sorting and signal transduction. The encoded protein is localized to the endoplasmic reticulum and transfers the second mannose to the GPI backbone. Mutations in this gene are associated with hyperphosphatasia cognitive disability syndrome. Alternatively spliced transcript variants have been observed for this gene. |
| Molecular Weight: | 60 kDa |
| Gene ID: | 55650 |
| Pathways: | Inositol Metabolic Process |

## Application Details

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| Application Notes: | Western blot, 0.25-0.5 µg/mL, Human<br>Flow Cytometry (Fixed), 1-3 µg/1x1x$10^6$ cells, Human<br>ELISA, 0.1-0.5 µg/mL, -<br>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. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |

## Handling

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| Reconstitution: | Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |