

Datasheet for ABIN7600375
anti-PIGS antibody (AA 184-504)



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Overview

Quantity:	100 µg
Target:	PIGS
Binding Specificity:	AA 184-504
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIGS antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-PIGS Antibody Picoband®
Immunogen:	E.coli-derived human PIGS recombinant protein (Position: R184-D504).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-PIGS Antibody Picoband® (ABIN7600375). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Rat. 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

Target:	PIGS
Alternative Name:	PIGS (PIGS Products)
Background:	Synonyms: Semaphorin-3E, SEMA3E, KIAA0331, SEMAH Tissue Specificity: Detected in the sinusoidal epithelium in the red pulp of spleen. Predominantly expressed in spleen. Also detected in a range of other tissues including heart, brain, lung, liver, kidney, thymus, testis, ovary, small intestine, prostate and colon. Background: GPI transamidase component PIG-S is an enzyme that in humans is encoded by the PIGS gene. This gene encodes a protein that is involved in GPI-anchor biosynthesis. The glycosylphosphatidylinositol (GPI) anchor is a glycolipid found on many blood cells and serves to anchor proteins to the cell surface. This gene encodes an essential component of the multisubunit enzyme, GPI transamidase. GPI transamidase mediates GPI anchoring in the endoplasmic reticulum, by catalyzing the transfer of fully assembled GPI units to proteins.
Molecular Weight:	65 kDa
Gene ID:	94005
UniProt:	Q96S52
Pathways:	Inositol Metabolic Process , SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Rat Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x1x10⁶ cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Efthymiou, S., Dutra-Clarke, M., Maroofian, R., Kaiyrzhanov, R., Scala, M., Alvi, J. R., Sultan, T., Christoforou, M., Nguyen, T. T. M., Mankad, K., Vona, B., Rad, A., Striano, P., Salpietro, V., Guillen Sacoto, M. J., Zaki, M. S., Gleeson, J. G., Campeau, P. M., Russell, B. E., Houlden, H. Expanding the phenotype of PIGS-associated early onset epileptic developmental encephalopathy. <i>Epilepsia</i> 62: e35-e41, 2021. 2. Gross, M. B. Personal Communication. Baltimore, Md. 7/21/2020. 3. Nguyen, T. T. M., Murakami, Y., Wigby, K. M., Baratang, N. V., Rousseau, J., St-Denis, A., Rosenfeld, J. A., Laniewski, S. C., Jones, J., Iglesias, A. D., Jones, M. C., Masser-Frye, D., and 7 others. Mutations in PIGS, encoding a GPI transamidase, cause a neurological syndrome ranging from fetal akinesia to epileptic encephalopathy. <i>Am. J. Hum. Genet.</i> 103: 602-611, 2018.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
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 Na ₂ HPO ₄ .
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. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.