

Rabbit GLOD5 Polyclonal Antibody | anti-GLOD5 antibody

Anti-GLOD5 Antibody Picoband

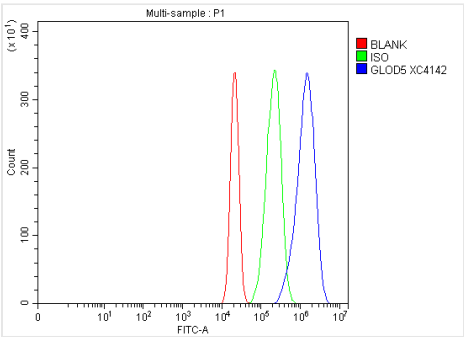
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128230	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

GLOD5; Polyclonal Antibody; Anti-GLOD5 Antibody Picoband; Glyoxalase domain-containing protein 5; glyoxalase domain containing 5; anti-GLOD5 antibody

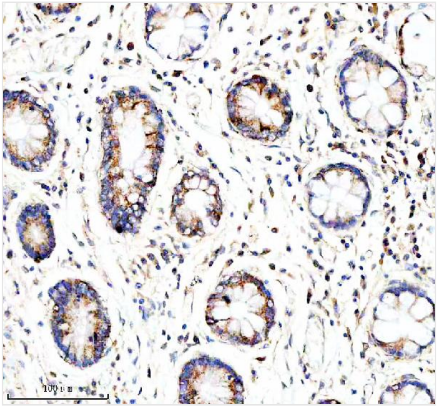
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-GLOD5 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human GLOD5 recombinant protein (Position: M1-S160). Human GLOD5 shares 82.6% amino acid (aa) sequence identity with mouse GLOD5.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
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.



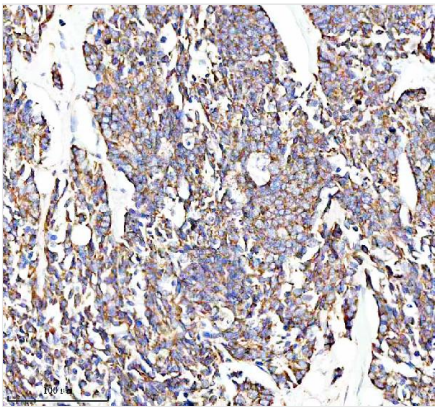
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of RT4 cells using anti-GLOD5 antibody (AAA128230).Overlay histogram showing RT4 cells stained with AAA128230 (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-GLOD5 Antibody (AAA128230, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



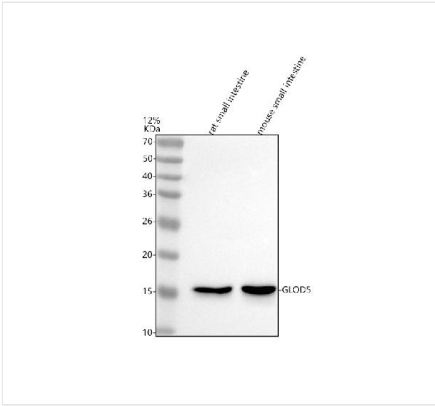
IHC (Immunohistochemistry)

Figure 2. IHC analysis of GLOD5 using anti-GLOD5 antibody (AAA128230).GLOD5 was detected in a paraffin-embedded section of human stomach tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-GLOD5 Antibody (AAA128230) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of GLOD5 using anti-GLOD5 antibody (AAA128230).GLOD5 was detected in a paraffin-embedded section of human stomach cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-GLOD5 Antibody (AAA128230) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of GLOD5 using anti-GLOD5 antibody (AAA128230).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: rat small intestine tissue lysates,Lane 2: mouse small intestine tissue 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-GLOD5 antigen affinity purified polyclonal antibody (AAA128230) 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 with Tanon 5200 system. A specific band was detected for GLOD5 at approximately 16 kDa. The expected band size for GLOD5 is at 18 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GLOD5 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 Categories/Family for anti-GLOD5 antibody	Primary Antibodies
References	1. Farrera, D. O., Galligan, J. J. The human glyoxalase gene family in health and disease. Chem. Res. Toxicol. 35: 1766-1776, 2022.

NCBI AND UNIPROT INFORMATION

NCBI GI #	254039722
NCBI GeneID	392465
NCBI Accession #	NP_001073958.2
NCBI GenBank Nucleotide #	NM_001080489.2
UniProt Accession #	A6NK44
Molecular Weight	18,322 Da
NCBI Official Full Name	glyoxalase domain-containing protein 5
NCBI Official Synonym Full Names	glyoxalase domain containing 5
NCBI Official Symbol	GLOD5
NCBI Protein Information	glyoxalase domain-containing protein 5
UniProt Protein Name	Glyoxalase domain-containing protein 5
UniProt Gene Name	GLOD5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/glod5-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/128230>