

Rabbit GLOD4 Polyclonal Antibody | anti-GLOD4 antibody

Anti-GLOD4 Antibody Picoband

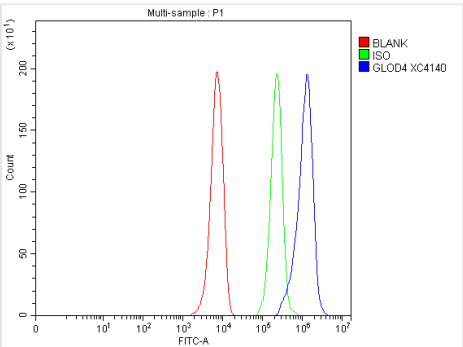
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA128226	Rabbit	Human, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

GLOD4; Polyclonal Antibody; Anti-GLOD4 Antibody Picoband; Glyoxalase domain-containing protein 4; glyoxalase domain containing 4; C17orf25; CGI-150; My027; anti-GLOD4 antibody

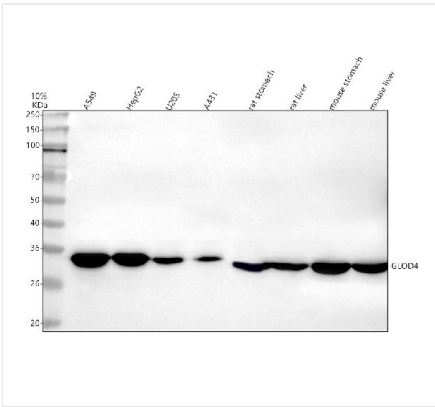
PRODUCT SPECIFICATIONS

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-GLOD4 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human GLOD4 recombinant protein (Position: E57-G313). Human GLOD4 shares 92.4% and 91.2% amino acid (aa) sequence identity with mouse and rat GLOD4, respectively.
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 2. Flow Cytometry analysis of HepG2 cells using anti-GLOD4 antibody (AAA128226). Overlay histogram showing HepG2 cells stained with AAA128226 (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-GLOD4 Antibody (AAA128226, 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.



WB (Western Blot)

Figure 1. Western blot analysis of GLOD4 using anti-GLOD4 antibody (AAA128226). 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 A549 whole cell lysates, Lane 2: human HepG2 whole cell lysates, Lane 3: human U2OS whole cell lysates, Lane 4: human A431 whole cell lysates, Lane 5: rat stomach tissue lysates, Lane 6: rat liver tissue lysates, Lane 7: mouse stomach tissue lysates, Lane 8: mouse liver 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-GLOD4 antigen affinity purified polyclonal antibody (AAA128226) 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 GLOD4 at approximately 35 kDa. The expected band size for GLOD4 is at 35 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GLOD4 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-GLOD4 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, 2022.2. Qin, W. X., Wan, F., Sun, F. Y., Zhang, P. P., Han, L. W., Huang, Y., Jiang, H. Q., Zhao, X. T., He, M., Ye, Y., Cong, W. M., Wu, M. C., Zhang, L. S., Yang, N. W., Gu, J. R. Cloning and characterization of a novel gene (C17orf25) from the deletion region on chromosome 17p13.3 in hepatocellular (sic) carcinoma. Cell Res. 11: 209-216, 2001.3. Zhang, H. T., Yan, Z. Q., Hu, X. B., Yang, S. L., Gong, Y. Interaction of C17orf25 with ADP-ribose pyrophosphatase NUDT9 detected via yeast two-hybrid method. Acta Biochim. Biophys. Sin. 35: 747-751, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	217330598
NCBI GeneID	51031
NCBI Accession #	NP_057164.3
NCBI GenBank Nucleotide #	NM_016080.3
UniProt Accession #	Q9HC38; Q96B89; Q9H3J8; Q9HC37; Q9NVN1; D3DTG9; D3DTH1
NCBI Official Full Name	glyoxalase domain-containing protein 4
NCBI Official Synonym Full Names	glyoxalase domain containing 4
NCBI Official Symbol	GLOD4

NCBI Official Synonym Symbols	HC71; CGI-150; C17orf25
NCBI Protein Information	glyoxalase domain-containing protein 4
UniProt Protein Name	Glyoxalase domain-containing protein 4
UniProt Gene Name	GLOD4
UniProt Synonym Gene Names	C17orf25
UniProt Entry Name	GLOD4_HUMAN

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://stage.aaabiotech.com/polyclonal/glod4-antibody-flow-cytometry-western-blot-elisa/128226>