Rabbit GNG2 Polyclonal Antibody | anti-GNG2 antibody

Anti-GNG2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19312	**Rabbit**	**Human, Mouse, Rat**	**Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA**

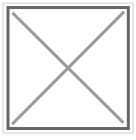
PRODUCT SYNONYMS

GNG2; Polyclonal Antibody; Anti-GNG2 Antibody; Gng2; Guanine nucleotide-binding protein G(I/G(S/G(O subunit gamma-2; G gamma-I; G protein subunit gamma 2; anti-GNG2 antibody

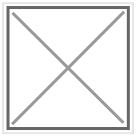
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for GNG2 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-GNG2 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.1-0.25ug/ml|Human, Mouse, Rat| IHC-P: 2-5ug/ml|Human| FC/FACS/FCM: 1-3ug/1x106 cells|Human, Mouse| Direct ELISA: 0.1-0.5ug/ml|Human|
Immunogen	E Coli-derived human GNG2 recombinant protein (Position: A2-D48).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

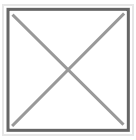
IMAGES



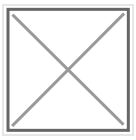
FCM (Flow Cytometry)
Figure 10. Flow Cytometry analysis of U87 cells using anti-GNG2 antibody (AAA19312).Overlay histogram showing U87 cells stained with AAA19312 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GNG2 Antibody (AAA19312, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)
Figure 9. Flow Cytometry analysis of HEPA1-6 cells using anti-GNG2 antibody (AAA19312).Overlay histogram showing HEPA1-6 cells stained with AAA19312 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GNG2 Antibody (AAA19312, 1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)
Figure 8. IHC analysis of GNG2 using anti-GNG2 antibody (AAA19312).GNG2 was detected in paraffin-embedded section of human renal carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-GNG2 Antibody (AAA19312) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 7. IHC analysis of GNG2 using anti-GNG2 antibody (AAA19312).GNG2 was detected in paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-GNG2 Antibody (AAA19312) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

IHC (Immunohistchemistry)
Figure 6. IHC analysis of GNG2 using anti-GNG2 antibody (AAA19312).GNG2 was detected in paraffin-embedded section of human ovarian cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-GNG2 Antibody (AAA19312) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

IHC (Immunohistochemistry)
Figure 5. IHC analysis of GNG2 using anti-GNG2 antibody (AAA19312).GNG2 was detected in paraffin-embedded section of human lung cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-GNG2 Antibody (AAA19312) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-GNG2 antibody	Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2 is a protein that in humans is encoded by the GNG2 gene. This gene encodes one of the gamma subunits of a guanine nucleotide-binding protein. Such proteins are involved in signaling mechanisms across membranes. Various subunits forms heterodimers which then interact with the different signal molecules.
References	1. Downes, G. B., Gilbert, D. J., Copeland, N. G., Gautam, N., Jenkins, N. A. Chromosomal mapping of five mouse G protein gamma subunits. Genomics 57: 173-176, 1999. 2. Modarressi, M. H., Taylor, K. E., Wolfe, J. Cloning, characterization, and mapping of the gene encoding the human G protein gamma-2 subunit. Biochem. Biophys. Res. Commun. 272: 610-615, 2000. 3. Wolfe, J. T., Wang, H., Howard, J., Garrison, J. C., Barrett, P. Q. T-type calcium channel regulation by specific G-protein beta-gamma subunits. Nature 424: 209-213, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	344313196
NCBI GeneID	54331
NCBI Accession #	NP_001230702.1
NCBI GenBank Nucleotide #	NM_001243773.1
UniProt Accession #	P59768; Q5JPE2; Q6P9A9
Molecular Weight	7,850 Da
NCBI Official Full Name	guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2
NCBI Official Synonym Full Names	guanine nucleotide binding protein (G protein), gamma 2
NCBI Official Symbol	GNG2
NCBI Protein Information	guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2; guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2; g gamma-I; guanine nucleotide binding protein gamma 2; guanine nucleotide-binding protein G(I)/G(O) gamma-2 subunit

UniProt Protein Name	Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-2
UniProt Gene Name	**GNG2**
UniProt Entry Name	GBG2_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/gng2-antibody-western-blot-immunohistochemistry-flow-cytometry-direct-elisa-elisa/19312