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GNGT2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant GNGT2.
Catalog # AT2233a

Specification

GNGT2 Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	O14610
Other Accession	BC008663
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 kappa**
Calculated MW	**7747**

GNGT2 Antibody (monoclonal) (M01) - Additional Information

Gene ID 2793

Other Names
Guanine nucleotide-binding protein G(I)/G(S)/G(O) subunit gamma-T2, G gamma-C, G-gamma-8, G-gamma-9, Guanine nucleotide binding protein gamma transducing activity polypeptide 2, GNGT2, GNG8, GNG9, GNGT8

Target/Specificity
GNGT2 (AAH08663, 1 a.a. ~ 69 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
GNGT2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

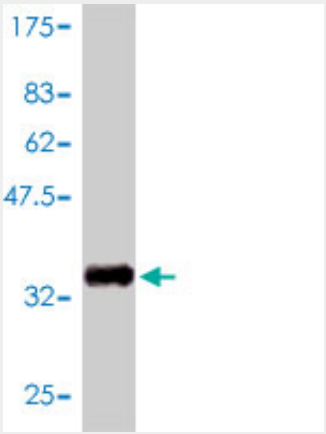
GNGT2 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

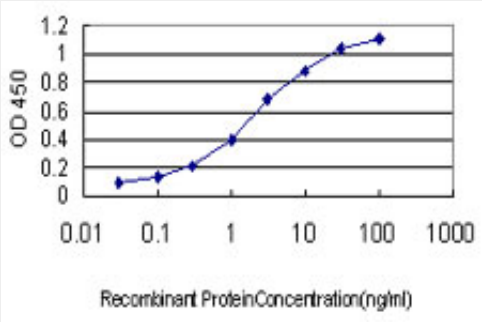
- Western Blot
- Blocking Peptides

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GNGT2 Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.33 KDa) .



Detection limit for recombinant GST tagged GNGT2 is approximately 0.03ng/ml as a capture antibody.

GNGT2 Antibody (monoclonal) (M01) - Background

Phototransduction in rod and cone photoreceptors is regulated by groups of signaling proteins. The encoded protein is thought to play a crucial role in cone phototransduction. It belongs to the G protein gamma family and localized specifically in cones. There is evidence for use of multiple polyadenylation sites by this gene.

GNGT2 Antibody (monoclonal) (M01) - References

beta-Arrestin1 interacts with the G-protein subunits beta1gamma2 and promotes beta1gamma2-dependent Akt signalling for NF-kappaB activation. Yang M, et al. Biochem J, 2009 Jan 1. PMID 18729826.The molecular basis for T-type Ca2+ channel inhibition by G protein beta2gamma2 subunits. DePuy SD, et al. Proc Natl Acad Sci U S A, 2006 Sep 26. PMID 16973746.The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). Gerhard DS, et al. Genome Res, 2004 Oct. PMID 15489334.Mapping the Gbetagamma-binding sites in GIRK1 and GIRK2 subunits of the G protein-activated K+ channel. Ivanina T, et al. J Biol Chem, 2003 Aug 1. PMID 12743112.Activation of heterotrimeric G proteins by

a high energy phosphate transfer via nucleoside diphosphate kinase (NDPK) B and Gbeta subunits. Complex formation of NDPK B with Gbeta gamma dimers and phosphorylation of His-266 IN Gbeta. Cuello F, et al. J Biol Chem, 2003 Feb 28. PMID 12486123.