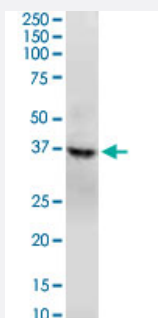


GNAQ monoclonal antibody (M04), clone 3B9

Catalog # H00002776-M04

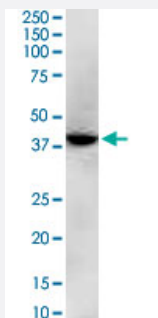
Size 100 ug

Applications



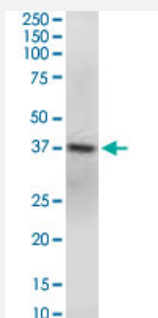
Western Blot (Cell lysate)

GNAQ monoclonal antibody (M04), clone 3B9. Western Blot analysis of GNAQ expression in PC-12.



Western Blot (Cell lysate)

GNAQ monoclonal antibody (M04), clone 3B9. Western Blot analysis of GNAQ expression in Jurkat.

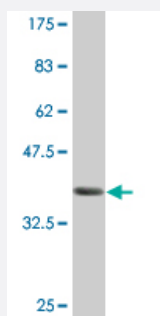
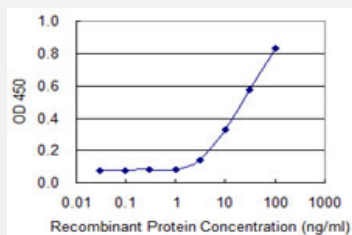


Western Blot (Cell lysate)

GNAQ monoclonal antibody (M04), clone 3B9. Western Blot analysis of GNAQ expression in Raw 264.7.

Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GNAQ is 1 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant GNAQ.
Immunogen	GNAQ (NP_002063.2, 101 a.a. ~ 200 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	YKYEHNKAHAQLVREVDVEKVSFENPYVDAIKSLWNDPGIQECYDRRREYQLSDSTKYLLNDLD RVADPAYLPTQQDVLVRVPTTGIIIEYPFDLQSVI
Host	Mouse
Reactivity	Human, Mouse, Rat
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

GNAQ monoclonal antibody (M04), clone 3B9. Western Blot analysis of GNAQ expression in PC-12.

[Protocol Download](#)

- Western Blot (Cell lysate)

GNAQ monoclonal antibody (M04), clone 3B9. Western Blot analysis of GNAQ expression in Jurkat.

[Protocol Download](#)

- Western Blot (Cell lysate)

GNAQ monoclonal antibody (M04), clone 3B9. Western Blot analysis of GNAQ expression in Raw 264.7.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GNAQ is 1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — GNAQ

Entrez GeneID	2776
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GeneBank Accession#	NM_002072
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Protein Accession#	NP_002063.2
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Gene Name	GNAQ
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Gene Alias	G-ALPHA-q, GAQ
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Gene Description	guanine nucleotide binding protein (G protein), q polypeptide
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Omim ID	600998
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Gene Ontology	Hyperlink
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Gene Summary

Guanine nucleotide-binding proteins are a family of heterotrimeric proteins that couple cell surface, 7-transmembrane domain receptors to intracellular signaling pathways. Receptor activation catalyzes the exchange of GTP for GDP bound to the inactive G protein alpha subunit resulting in a conformational change and dissociation of the complex. The G protein alpha and beta-gamma subunits are capable of regulating various cellular effectors. Activation is terminated by a GTPase intrinsic to the G-alpha subunit. G-alpha-q is the alpha subunit of one of the heterotrimeric GTP-binding proteins that mediates stimulation of phospholipase C-beta (MIM 600230).[supplied by OMIM]

Other Designations

-

Publication Reference

- [Protein kinase C \$\zeta\$ interacts with a novel binding region of Gαq to act as functional effector protein.](#)

Sanchez-Fernandez G, Cabezudo S, Caballero A, Garcia-Hoz C, Tall GG, Klett J, Michnick SW, Mayor F Jr, Ribas C. The Journal of Biological Chemistry 2016 Apr; 291(18):9513.

Application: WB-Ce, Human, CHO, HeLa, COS-7, HEK293 cells

Pathway

- [Calcium signaling pathway](#)
- [Gap junction](#)
- [GnRH signaling pathway](#)
- [Long-term depression](#)
- [Long-term potentiation](#)
- [Melanogenesis](#)
- [Vascular smooth muscle contraction](#)

Disease

- [Conjunctival Neoplasms](#)
- [Melanoma](#)
- [Melanosis](#)
- [Neoplasms](#)

- [Nevus](#)
- [Thyroid Diseases](#)
- [Uveal Neoplasms](#)