

GNA13 Antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15332**Specification**

GNA13 Antibody - N-terminal region - Product Information

Application	WB
Primary Accession	Q14344
Other Accession	NM_006572 , NP_006563
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44kDa kDa

GNA13 Antibody - N-terminal region - Additional Information**Gene ID** 10672**Alias Symbol** **G13, MGC46138****Other Names**

Guanine nucleotide-binding protein subunit alpha-13, G alpha-13, G-protein subunit alpha-13, GNA13

Format

Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage

Add 50 ul of distilled water. Final anti-GNA13 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions

GNA13 Antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

GNA13 Antibody - N-terminal region - Protein Information**Name** GNA13**Function**

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems (PubMed:15240885, PubMed:16705036, PubMed:16787920, PubMed:27084452). Activates effector molecule RhoA by binding and activating RhoGEFs (ARHGEF1/p115RhoGEF, ARHGEF11/PDZ-RhoGEF and ARHGEF12/LARG) (PubMed:12515866, PubMed:12515866).

href="http://www.uniprot.org/citations/15240885" target="_blank">15240885). GNA13-dependent Rho signaling subsequently regulates transcription factor AP-1 (activating protein-1) (By similarity). Promotes tumor cell invasion and metastasis by activating RhoA/ROCK signaling pathway (PubMed:16705036, PubMed:16787920, PubMed:27084452). Inhibits CDH1-mediated cell adhesion in a process independent from Rho activation (PubMed:11976333). In lymphoid follicles, transmits P2RY8- and S1PR2-dependent signals that lead to inhibition of germinal center (GC) B cell growth and migration outside the GC niche.

Cellular Location

Cell membrane; Lipid-anchor. Melanosome. Cytoplasm. Nucleus Note=Identified by mass spectrometry in melanosome fractions from stage I to stage IV (PubMed:17081065). Detected in the cytoplasm of Leydig cells and in the seminiferous epithelium, including differentiating cells from the spermatogonia to mature spermatozoa stages (PubMed:18703424). In round spermatids, also present in the nuclei (PubMed:18703424).

Tissue Location

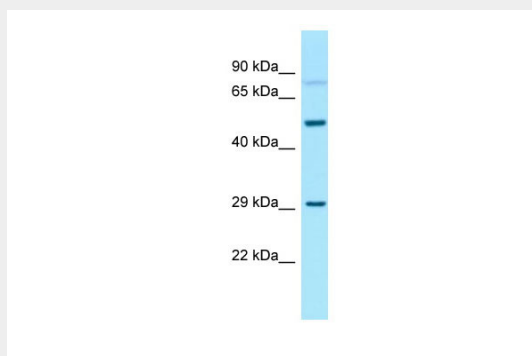
Expressed in testis, including in Leydig cells and in the seminiferous epithelium, in differentiating cells from the spermatogonia to mature spermatozoa stages and round spermatids (at protein level). Expressed in 99.2% of spermatozoa from healthy individuals, but only in 28.6% of macrocephalic spermatozoa from infertile patients (at protein level).

GNA13 Antibody - N-terminal region - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GNA13 Antibody - N-terminal region - Images



WB Suggested Anti-GNA13 Antibody Titration: 1.0 µg/ml

Positive Control: 721_B Whole CellGNA13 is supported by BioGPS gene expression data to be

expressed in 721_B

GNA13 Antibody - N-terminal region - References

- Kabouridis P.S.,et al.Mol. Cell. Biochem. 144:45-51(1995).
Puhl H.L. III,et al.Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Bhattacharyya R.,et al.J. Biol. Chem. 275:14992-14999(2000).