

GNA13 Antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI15332

Product Information

Application	WB
Primary Accession	Q14344
Other Accession	NM_006572 , NP_006563
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	44050

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.

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: 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).

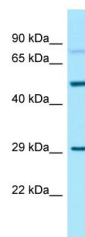
Tissue Location

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).

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).

Images



WB Suggested Anti-GNA13 Antibody Titration: 1.0 µg/ml
Positive Control: 721_B Whole Cell
GNA13 is supported by BioGPS gene expression data to be expressed in 721_B

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.