

Product datasheet for **CF812024**

GNA14 Mouse Monoclonal Antibody [Clone ID: OTI4A4]

Product data:

| | |
|--------------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI4A4 |
| Applications: | IHC, WB |
| Recommended Dilution: | WB 1:500~2000, IHC 1:500 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Isotype: | IgG1 |
| Clonality: | Monoclonal |
| Immunogen: | Human recombinant protein fragment corresponding to amino acids 31-348 of human GNA14 (NP_004288) produced in E.coli. |
| Formulation: | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose) |
| Reconstitution Method: | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 41.4 kDa |
| Gene Name: | G protein subunit alpha 14 |
| Database Link: | NP_004288 Entrez Gene 14675 Mouse Entrez Gene 309242 Rat Entrez Gene 9630 Human O95837 |



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Background:

This gene encodes a member of the guanine nucleotide-binding, or G protein family. G proteins are heterotrimers consisting of alpha, beta and gamma subunits. The encoded protein is a member of the alpha family of G proteins, more specifically the alpha q subfamily of G proteins. The encoded protein may play a role in pertussis-toxin resistant activation of phospholipase C-beta and its downstream effectors. [provided by RefSeq, Feb 2009]

Synonyms:

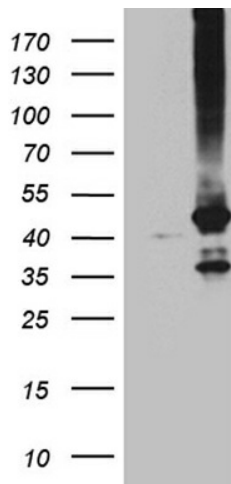
alpha 14; G alpha 14; guanine nucleotide-binding protein 14; guanine nucleotide binding protein (G protein); OTTHUMP00000021515

Protein Families:

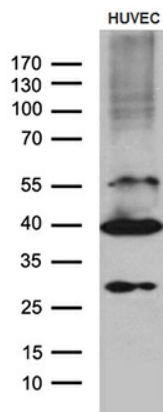
Druggable Genome

Protein Pathways:

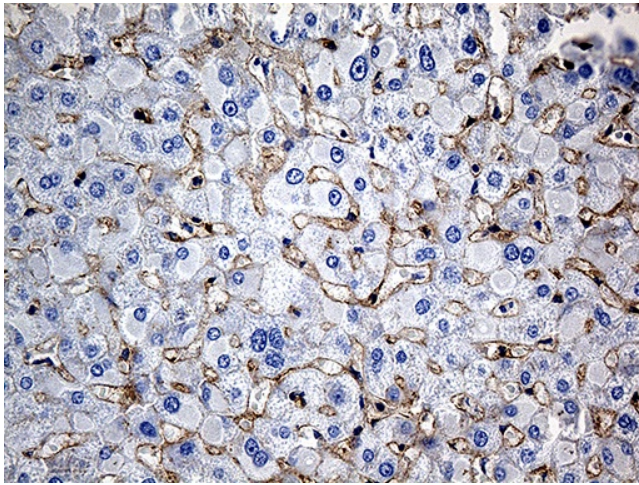
Calcium signaling pathway

Product images:


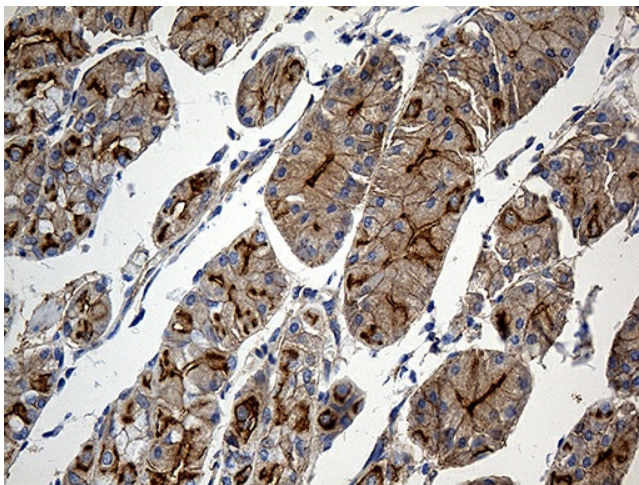
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GNA14 [RC206547], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GNA14. Positive lysates [LY418087] (100ug) and [LC418087] (20ug) can be purchased separately from OriGene.



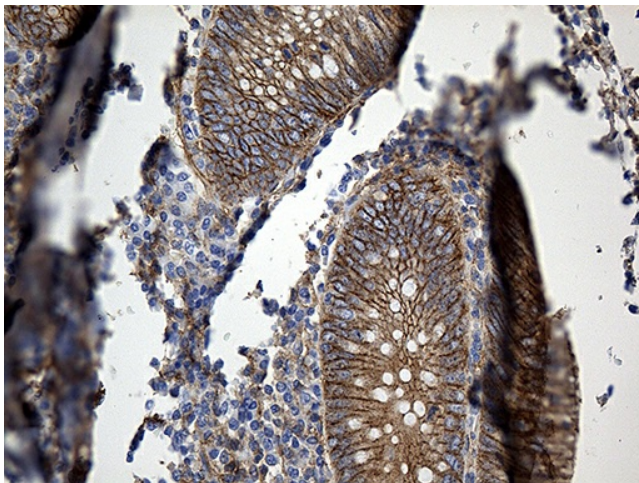
Western blot analysis of extracts (35ug) from HUVEC cell line by using anti-GNA14 monoclonal antibody (1:500).



Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-GNA14 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA812024]) (1:500)



Immunohistochemical staining of paraffin-embedded Human gastric tissue within the normal limits using anti-GNA14 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA812024]) (1:500)



Immunohistochemical staining of paraffin-embedded Human appendix tissue within the normal limits using anti-GNA14 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA812024]) (1:500)