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Product datasheet for CF812022

GNA14 Mouse Monoclonal Antibody [Clone ID: OTI3D3]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3D3
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 MouseEntrez Gene 309242 RatEntrez Gene 9630 Human O95837

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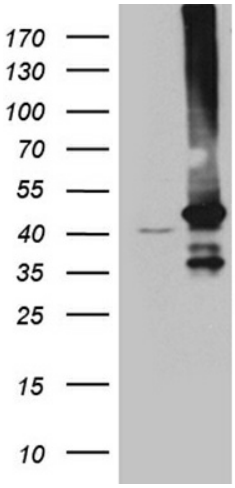
Background: This gene encodes a member of the guanine nucleotide-binding, or G protein family. G proteins are heterotrimers consisting of alpha, beta and gamma subunits. The encoded protein is a member of the alpha family of G proteins, more specifically the alpha q subfamily of G proteins. The encoded 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

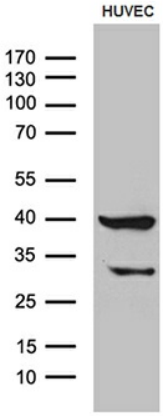
Protein Families: Druggable Genome

Protein Pathways: Calcium signaling pathway

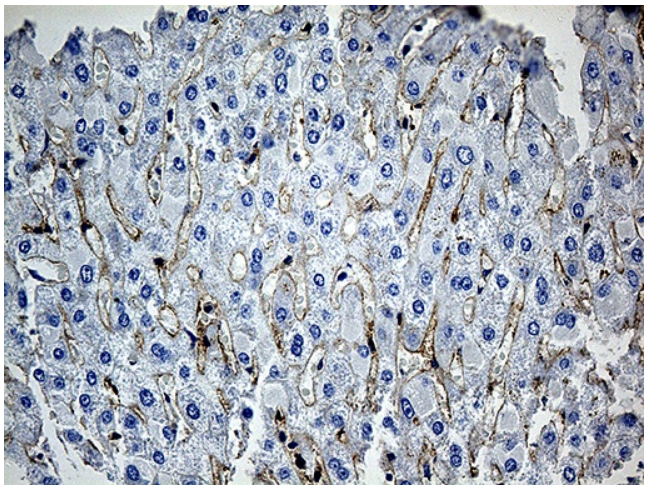
Product images:



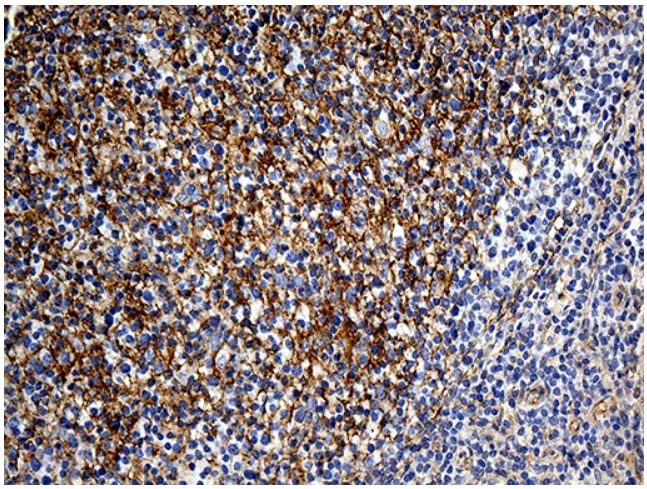
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GNA14 ([RC206547], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GNA14. Positive lysates [LY418087] (100ug) and [LC418087]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



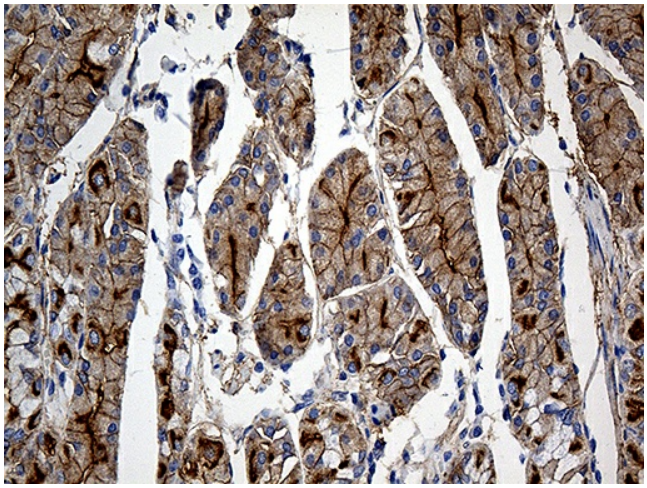
Western blot analysis of extracts (35ug) from HUVEC cell line by using anti-GNA14 monoclonal antibody (1:500).



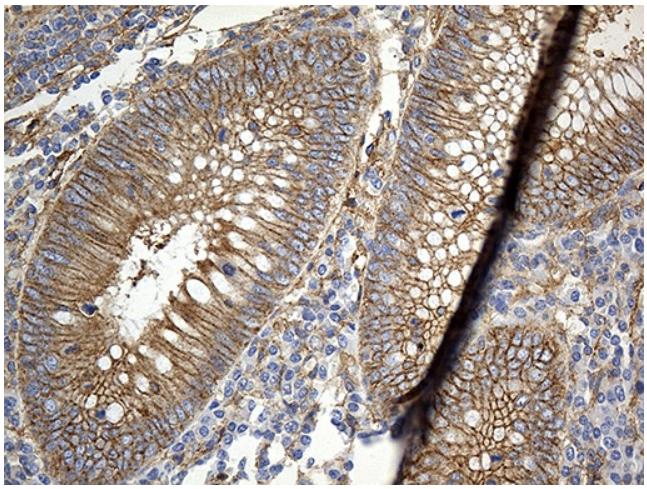
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-GNA14 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA812022]) (1:500)



Immunohistochemical staining of paraffin-embedded Human tonsil 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, [TA812022]) (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, [TA812022]) (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, [TA812022]) (1:500)