

## Product datasheet for **TA812022AM**

### **GNA14 Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3D3]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI3D3
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	WB 1:500~2000, IHC 1:500
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Human recombinant protein fragment corresponding to amino acids 31-348 of human GNA14 (NP_004288) produced in E.coli.
<b>Formulation:</b>	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
<b>Concentration:</b>	0.5 mg/ml
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Biotin
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	41.4 kDa
<b>Gene Name:</b>	G protein subunit alpha 14
<b>Database Link:</b>	<a href="#">NP_004288</a> <a href="#">Entrez Gene 14675 Mouse</a> <a href="#">Entrez Gene 309242 Rat</a> <a href="#">Entrez Gene 9630 Human</a> <a href="#">O95837</a>
<b>Background:</b>	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]



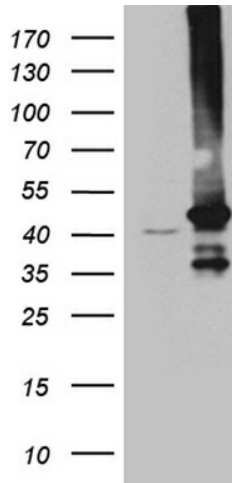
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**Synonyms:** alpha 14; G alpha 14; guanine nucleotide-binding protein 14; guanine nucleotide binding protein (G protein); OTTHUMP00000021515

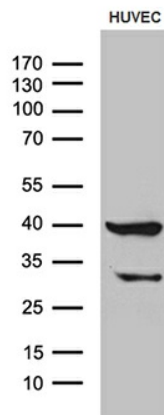
**Protein Families:** Druggable Genome

**Protein Pathways:** Calcium signaling pathway

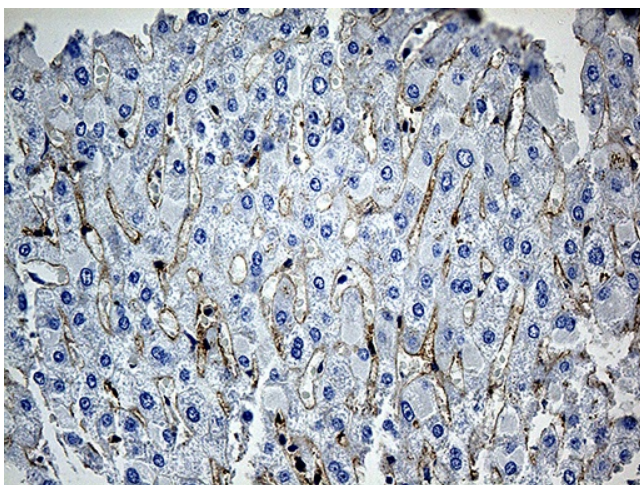
**Product images:**



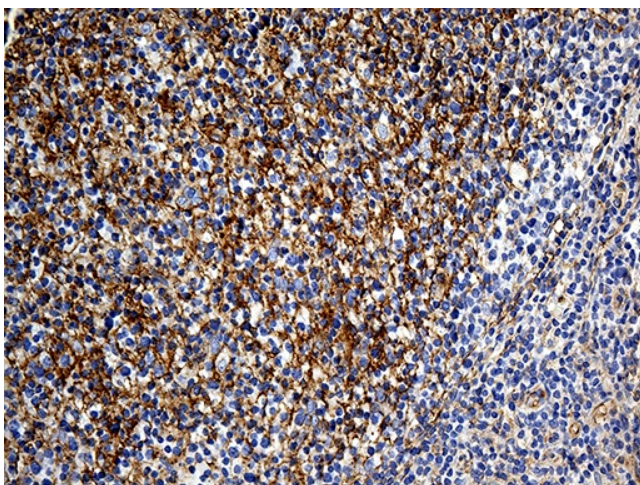
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY GNA14 ([RC206547], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-GNA14. Positive lysates [LY418087] (100ug) and [LC418087]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



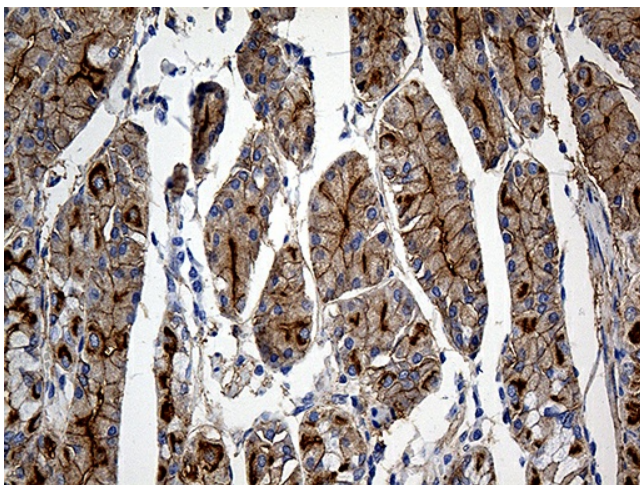
Western blot analysis of extracts (35ug) from HUVEC cell line by using anti-GNA14 monoclonal antibody (1:500).



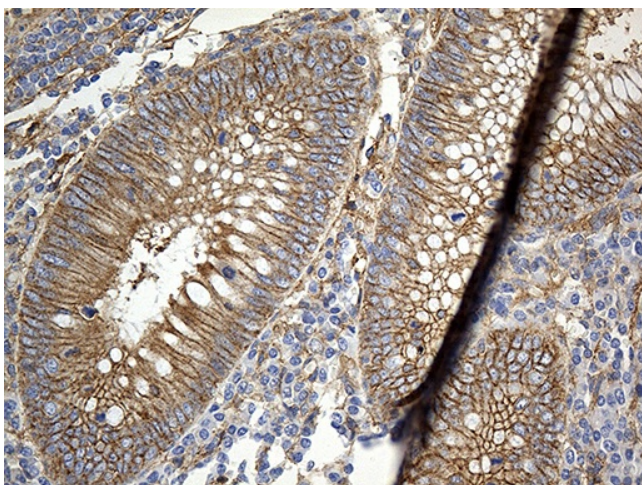
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-GNA14 mouse monoclonal antibody. (Heat-induced epitope retrieval by 1mM EDTA in 10mM Tris buffer (pH8.5) at 120°C for 3min, [TA812022]) (1:500)



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)