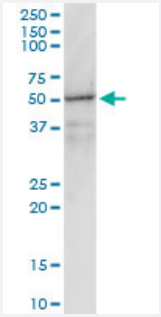
GNAI1 monoclonal antibody (M01), clone 2B8-2A5

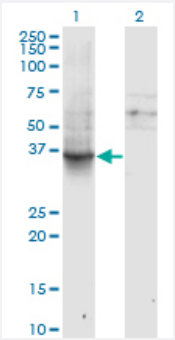
Catalog # H00002770-M01 Size 100 ug

Applications



Western Blot (Tissue lysate)

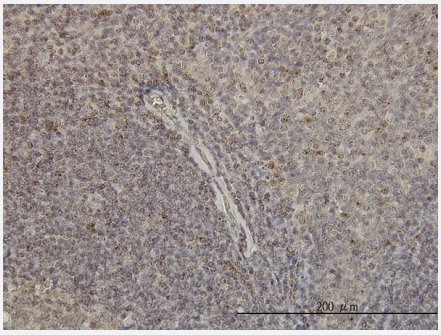
GNAI1 monoclonal antibody (M01), clone 2B8-2A5. Western Blot analysis of GNAI1 expression in human liver.



Western Blot (Transfected lysate)

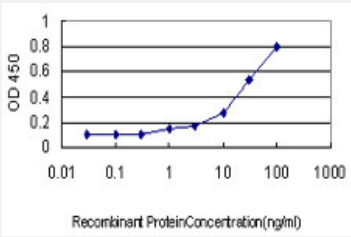
Western Blot analysis of GNAI1 expression in transfected 293T cell line by GNAI1 monoclonal antibody (M01), clone 2B8-2A5.

Lane 1: GNAI1 transfected lysate(40.4 KDa).
Lane 2: Non-transfected lysate.



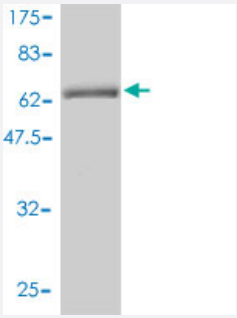
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunoperoxidase of monoclonal antibody to GNAI1 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged GNAI1 is approximately 1ng/ml as a capture antibody.



Western Blot detection against Immunogen (64.68 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant GNAI1.
Immunogen	GNAI1 (AAH26326, 1 a.a. ~ 354 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MGCTLSAEDKAAVERSKMIDRNLREDGEKAAREVKLLLLGAGESGKSTIVKQMKIIHEAGYSEEE CKQYKAVVYSNTIQSIIAIIRAMGRLKIDFGDSARADDARQLFVLAGAAEEGFMTAELAGVIKRLWK DSGVQACFNRSREYQLNDSAAYYLNDLDRIAQPNYIPTQQDVLRTRVKTTGIVETHFTFKDLHFKM FDVGGQRSERKKWIHCFEGVAAIIFCVALSDYDLVLAEDEEMNRMHESMKLFDSICNNKWFTDTS IILFLNKKDLFEEKIKKSPLTICYQEYAGSNTYEEAAAYIQCQFEDLNKRKDTKEIYTHFTCATDTKNV QFVFDAVTDVIIKNNLKDCGLF
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (99); Rat (99)
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (64.68 KDa) .
Storage Buffer	In 1x PBS, pH 7.4

Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

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  Protocol Download

- Western Blot (Transfected lysate)

  Western Blot analysis of GNAI1 expression in transfected 293T cell line by GNAI1 monoclonal antibody (M01), clone 2B8-2A5.

  Lane 1: GNAI1 transfected lysate(40.4 KDa).
  Lane 2: Non-transfected lysate.

  Protocol Download

- Western Blot (Recombinant protein)

  Protocol Download

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  Immunoperoxidase of monoclonal antibody to GNAI1 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 3 ug/ml]

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- Sandwich ELISA (Recombinant protein)

  Detection limit for recombinant GST tagged GNAI1 is approximately 1ng/ml as a capture antibody.

  Protocol Download

- ELISA

Gene Info — GNAI1

Entrez GeneID	2770
GeneBank Accession#	BC026326
Protein Accession#	AAH26326
Gene Name	GNAI1

Gene Alias	Gi
Gene Description	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1
Omim ID	139310
Gene Ontology	Hyperlink
Gene Summary	Guanine nucleotide-binding proteins (G proteins) form a large family of signal-transducing molecules. They are found as heterotrimers made up of alpha, beta, and gamma subunits. Members of the G protein family have been characterized most extensively on the basis of the alpha subunit, which binds guanine nucleotide, is capable of hydrolyzing GTP, and interacts with specific receptor and effector molecules. The G protein family includes Gs (MIM 139320) and Gi, the stimulatory and inhibitory GTP-binding regulators of adenylate cyclase; Go, a protein abundant in brain (GNAO1; MIM 139311); and transducin-1 (GNAT1; MIM 139330) and transducin-2 (GNAT2; MIM 139340), proteins involved in phototransduction in retinal rods and cones, respectively (Sullivan et al., 1986 [PubMed 3092218]; Bray et al., 1987 [PubMed 3110783]). Suki et al. (1987) [PubMed 2440724] concluded that the human genome contains at least 3 nonallelic genes for alpha-i-type subunits of G protein; see, e.g, GNAI2 (MIM 139360), GNAI3 (MIM 139370), and GNAIH (MIM 139180).[supplied by OMIM
Other Designations	Gi1 protein alpha subunit

Publication Reference

- GI protein phosphorylation as marker for scoliosis progression, methods of increasing gipcr signaling subjects.

  Alain Moreau, Marie-Yvonne Akoume Ndong.

  United States Patent Application Publication 2016 May; [Epub].

  Application: WB-Tr, WB-Ti, S-ELISA, ELISA, WB-Re, IHC-P, Human, PBMCs, Myoblasts

Pathway

- Axon guidance
- Chemokine signaling pathway
- Gap junction
- Leukocyte transendothelial migration
- Long-term depression
- Melanogenesis
- Tight junction

Disease

- Anorexia Nervosa
- Bulimia
- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease