Datasheet for ABIN2856077

anti-GNAI1 antibody (Center)

2 Images

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Overview

Quantity:	100 µL
Target:	GNAI1
Binding Specificity:	Center
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GNAI1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human G protein alpha Inhibitor 1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Cow (Bovine)
Cross-Reactivity (Details):	Mouse (100 %), Rat (100 %), Bovine (100 %)
Characteristics:	Rabbit Polyclonal antibody to G protein alpha Inhibitor 1 (guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1) G protein alpha Inhibitor 1 antibody
Purification:	Purified by antigen-affinity chromatography.

Target Details

Target:	GNAI1
Alternative Name:	G Protein alpha Inhibitor 1 (GNAI1 Products)
Background:	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]
Molecular Weight:	40 kDa
Gene ID:	2770
Pathways:	G-protein mediated Events

Application Details

Application Notes:	Suggested dilution Reference IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceIHC (Formalin-fixed paraffin-embedded sections)1:100-1:1000* Western blot1:500-1:3000*
Comment:	Positive Control: A431 , HeLaS3
Restrictions:	For Research Use only

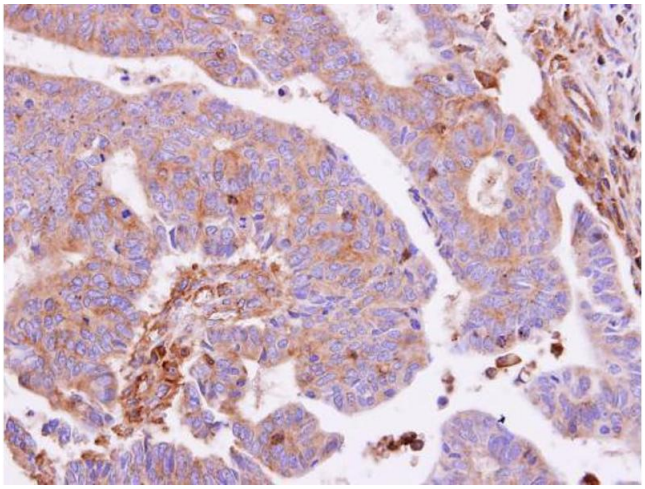
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.

Handling

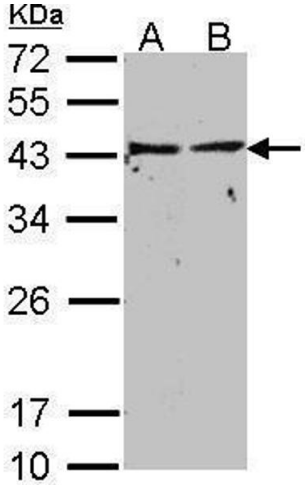
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Images



Immunohistochemistry

Image 1. IHC-P Image G protein alpha Inhibitor 1 antibody detects GNAI1 protein at cytoplasm on human colon carcinoma by immunohistochemical analysis. Sample: Paraffin-embedded colon carcinoma. G protein alpha Inhibitor 1 antibody , dilution: 1:500.



Western Blotting

Image 2. WB Image Sample(30 ug whole cell lysate) A: A431, B: HeLa S3, 12% SDS PAGE antibody diluted at 1:500