Datasheet for ABIN7114816

anti-GNAI1 antibody

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Overview

Quantity:	100 µg
Target:	GNAI1
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GNAI1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS)

Product Details

Immunogen:	guanine nucleotide binding protein(G protein), alpha inhibiting activity polypeptide 1
Isotype:	IgG
Purification:	Immunogen affinity purified
Purity:	≥95 % as determined by SDS-PAGE

Target Details

Target:	GNAI1
Alternative Name:	GNAI1 (GNAI1 Products)
Background:	Synonyms: Background:Guanine nucleotide-binding proteins(G proteins) function as transducers downstream of G protein-coupled receptors(GPCRs) in numerous signaling cascades. The alpha chain contains the guanine nucleotide binding site and alternates between

Target Details

	an active, GTP-bound state and an inactive, GDP-bound state. Signaling by an activated GPCR promotes GDP release and GTP binding. The alpha subunit has a low GTPase activity that converts bound GTP to GDP, thereby terminating the signal. Both GDP release and GTP hydrolysis are modulated by numerous regulatory proteins(PubMed:8774883, PubMed:18434541). Signaling is mediated via effector proteins, such as adenylate cyclase. Inhibits adenylate cyclase activity, leading to decreased intracellular cAMP levels(By similarity). The inactive GDP-bound form prevents the association of RGS14 with centrosomes and is required for the translocation of RGS14 from the cytoplasm to the plasma membrane. Required for normal cytokinesis during mitosis(PubMed:17635935).
Molecular Weight:	40 kDa
Gene ID:	2770
UniProt:	P63096
Pathways:	G-protein mediated Events

Application Details

Application Notes:	WB: 1:500-1:2000, IHC: 1:20-1:200, IF: 1:20-1:200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C for 12 months (Avoid repeated freeze / thaw cycles.)
Expiry Date:	12 months