anti- GNAI1 antibody

Product Information

Catalog No.:	FNab03531
Size:	100μg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20℃ for 12 months (Avoid repeated freeze / thaw cycles.)

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 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).

Immunogen information

Immunogen:	guanine nucleotide binding protein(G protein), alpha inhibiting activity polypeptide 1
Synonyms:	None
Observed MW:	40 kDa
Uniprot ID :	P63096

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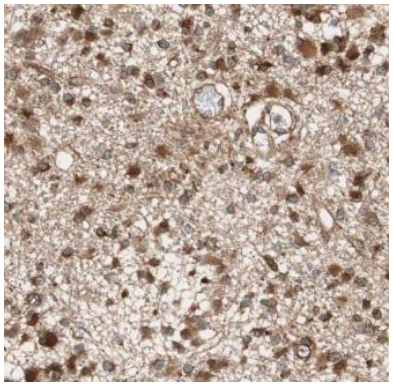
Application

Reactivity: Human, Mouse, Rat

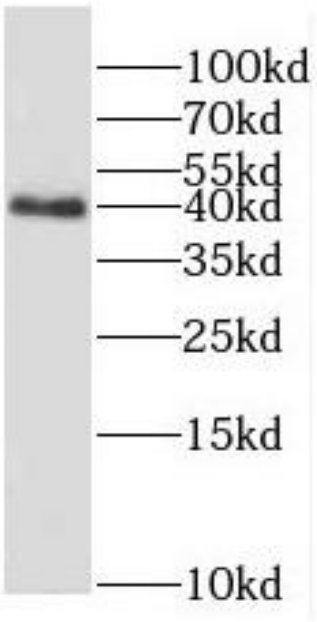
Tested Application: ELISA, WB, IHC, FC, IF

Recommended dilution: WB: 1:500-1:2000; IHC: 1:20-1:200; IF: 1:20-1:200

Image:



Immunohistochemistry of paraffin-embedded human gliomas using FNab03531(GNAI1 antibody) at dilution of 1:100



human brain tissue were subjected to SDS PAGE followed by western blot with FNab03531(GNAI1 antibody) at dilution of 1:1600

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