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Anti-GNAO1 Antibody

Rabbit Anti Human Polyclonal Antibody
Catalog # ALS17359

Product Information

Application	WB, IHC-P
Primary Accession	P09471
Predicted	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	40051

Additional Information

Gene ID	2775
Alias Symbol	GNAO1
Other Names	GNAO1, GNAO, G-ALPHA-o, G0 Protein Alpha
Target/Specificity	Human GNAO1.
Reconstitution & Storage	PBS, pH 7.3, 0.02% sodium azide, 50% glycerol. Long term: -80°C; Short term: -20°C. Avoid freeze-thaw cycles.
Precautions	Anti-GNAO1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GNAO1
Function	Guanine nucleotide-binding proteins (G proteins) function as transducers downstream of G protein-coupled receptors (GPCRs) in numerous signaling cascades, such as regulation of postsynaptic neurotransmitter release (PubMed:29925951, PubMed:33408414, PubMed:39103320). The alpha chain contains the guanine nucleotide binding site and alternates between an active, GTP-bound state and an inactive, GDP-bound state (PubMed:39103320). Signaling by an activated GPCR promotes GDP release and GTP binding (PubMed:39103320). The alpha subunit has a low GTPase activity that converts bound GTP to GDP, thereby terminating the signal (By similarity). Both GDP release and GTP hydrolysis are modulated by numerous regulatory proteins (By similarity). Signaling is mediated via effector proteins, such as adenylate cyclase: GNAO1 acts by inhibiting the activity of adenylate cyclases, leading to decreased intracellular cAMP levels (By similarity). Plays a key role in postsynaptic inhibition of neurotransmitter release (By similarity).

Cellular Location	Cell membrane; Peripheral membrane protein; Cytoplasmic side. Note=Associated to the plasma membrane via lipid-anchor.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.