

Gα i-3 Polyclonal Antibody

Catalog No :	YT2092
Reactivity :	Human;Mouse;Rat
Applications :	WB;ELISA
Target :	GNAI3
Fields :	>>Rap1 signaling pathway;>>cGMP-PKG signaling pathway;>>cAMP signaling pathway;>>Chemokine signaling pathway;>>Sphingolipid signaling pathway;>>Adrenergic signaling in cardiomyocytes;>>Axon guidance;>>Apelin signaling pathway;>>Gap junction;>>Platelet activation;>>Leukocyte transendothelial migration;>>Circadian entrainment;>>Retrograde endocannabinoid signaling;>>Glutamatergic synapse;>>Cholinergic synapse;>>Serotonergic synapse;>>GABAergic synapse;>>Dopaminergic synapse;>>Long-term depression;>>Progesterone-mediated oocyte maturation;>>Estrogen signaling pathway;>>Melanogenesis;>>Oxytocin signaling pathway;>>Regulation of lipolysis in adipocytes;>>Renin secretion;>>Relaxin signaling pathway;>>Parathyroid hormone synthesis, secretion and action;>>Cushing syndrome;>>Growth hormone synthesis, secretion and action;>>Gastric acid secretion;>>Parkinson disease;>>Cocaine addiction;>>Morphine addiction;>>Alcoholism;>>Pertussis;>>Chagas disease;>>Toxoplasmosis;>>Human cytomegalovirus infectio
Gene Name :	GNAI3
Protein Name :	Guanine nucleotide-binding protein G(k) subunit alpha
Human Gene Id :	2773
Human Swiss Prot No :	P08754
Mouse Gene Id :	14679
Mouse Swiss Prot No :	Q9DC51
Rat Gene Id :	25643
Rat Swiss Prot No :	P08753

Immunogen :	The antiserum was produced against synthesized peptide derived from human GNAI3. AA range:31-80
Specificity :	Gα i-3 Polyclonal Antibody detects endogenous levels of Gα i-3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. ELISA: 1:40000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	41kD
Cell Pathway :	Chemokine;Axon guidance;Tight junction;Gap junction;Leukocyte transendothelial migration;Long-term depression;Progesterone-mediated oocyte maturation;Melanogenesis;
Background :	Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling pathways. G proteins are composed of 3 units: alpha, beta and gamma. This gene encodes an alpha subunit and belongs to the G-alpha family. Mutation in this gene, resulting in a gly40-to-arg substitution, is associated with auriculocondylar syndrome, and shown to affect downstream targets in the G protein-coupled endothelin receptor pathway. [provided by RefSeq, Jun 2012],
Function :	function:Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. G(k) is the stimulatory G protein of receptor-regulated K(+) channels.,similarity:Belongs to the G-alpha family. G(i/o/t/z) subfamily.,subunit:G proteins are composed of 3 units; alpha, beta and gamma. The alpha chain contains the guanine nucleotide binding site. Interacts with GPSM1.,
Subcellular Location :	Cytoplasm . Cell membrane ; Lipid-anchor . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Localizes in the centrosomes of interphase and mitotic cells. Detected at the cleavage furrow and/or the midbody. .
Expression :	Liver,

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