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Product Number	ARP54630_P050-Biotin
Product Page	www.avivasysbio.com/gnai1-antibody-middle-region-biotin-arp54630-p050-biotin.html
Name	GNAI1 Antibody - middle region : Biotin (ARP54630_P050-Biotin)
Protein Size (# AA)	354 amino acids
Molecular Weight	40kDa
Subunit	alpha-1
Conjugation	Biotin
NCBI Gene Id	2770
Host	Rabbit
Clonality	Polyclonal
Concentration	0.5 mg/ml
Gene Full Name	Guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1
Alias Symbols	Gi
Peptide Sequence	Synthetic peptide located within the following region: YQLNDSAAYYLNDLDRIAQPNIPTQQDVLRTVRVKTGIVETHFTFKDLH
Product Format	Liquid. Purified antibody supplied in 1x PBS buffer.
Reference	Hurst,J.H., (2008) Cell. Signal. 20 (2), 381-389
Description of Target	<p>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 and Gi, the stimulatory and inhibitory GTP-binding regulators of adenylate cyclase; Go, a protein abundant in brain (GNAO1); and transducin-1 (GNAT1) and transducin-2 (GNAT2), proteins involved in phototransduction in retinal rods and cones, respectively. 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]. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.</p>
Protein Interactions	GPSM3; RGS17; ESR1; ATP4A; RAD52; SVIL; NUCB1; NCF2; MTNR1B; MTNR1A; NCF1; THAP7; RIC8A; RGS14; IQCB1; UBC; RANGAP1; GPR50; GNB1; GNAI3; GNAI2; GNB4; GNB2; PTH1R; PCK1; Haus1; Cep76; Haus4; Recq4; Trim69; Cbx1; PGR; STRN; KLHL3; ADCY5; RASD1; CRHR1; GPSM
Reconstitution and Storage	All conjugated antibodies should be stored in light-protected vials or covered with a light protecting material (i.e. aluminum foil). Conjugated antibodies are stable for at least 12 months at 4C. If longer storage is desired (24 months), conjugates may be diluted with up to 50% glycerol and stored at -20C to -80C. Freezing and thawing conjugated antibodies will compromise enzyme activity as well as antibody binding.
Datasheets/Manuals	Printable datasheet for anti-GNAI1 (ARP54630_P050-Biotin) antibody
Blocking Peptide	For anti-GNAI1 (ARP54630_P050-Biotin) antibody is Catalog # AAP54630 (Previous Catalog # AAPP31421)
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human GNAI1

Uniprot ID	P63096
Protein Name	Guanine nucleotide-binding protein G(i) subunit alpha-1
Protein Accession #	NP_002060
Purification	Affinity Purified
Nucleotide Accession #	NM_002069
Gene Symbol	GNAI1
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Dog, Goat, Guinea Pig, Horse, Pig, Rabbit, Sheep, Yeast, Zebrafish
Application	WB
Predicted Homology Based on Immunogen Sequence	Cow: 100%; Dog: 100%; Goat: 79%; Guinea Pig: 93%; Horse: 93%; Human: 100%; Mouse: 100%; Pig: 100%; Rabbit: 100%; Rat: 100%; Sheep: 79%; Yeast: 100%; Zebrafish: 85%
Image 1	

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Optimal conditions of its use should be determined by end users.

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