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GNG2 Rabbit pAb

Catalog # AP99524

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P59768
Other Accession	P59768
Reactivity	Zebrafish
Predicted	Rat, Human, Mouse, Chicken
Host	Rabbit
Clonality	Polyclonal
Calculated MW	7850
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GNG2
Epitope Specificity	2-50/71
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the G protein gamma family.
SUBUNIT	Belongs to the G protein gamma family. G proteins are composed of 3 units, alpha, beta and gamma (By similarity). The heterodimer formed by GNB1 and GNG2 interacts with PTH1R (via C-terminus)
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GNG2 (Guanine nucleotide binding protein (G protein), gamma 2) is a member of the guanine nucleotide-binding proteins (G proteins) family. Heterotrimeric G proteins are involved as a modulator or transducer in various transmembrane signaling systems. The specificity of a G protein-receptor interaction is primarily mediated by the gamma subunit.

Additional Information

Gene ID	54331
Other Names	HG3F1; GBG2_BOVIN; GNG2; G gamma-I; GBG2_HUMAN; GBG2_MOUSE; GBG2_PONAB; G protein subunit gamma 2; guanine nucleotide binding protein (G protein), gamma 2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GNG2
Function	Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems (PubMed:29925951, PubMed:33762731, PubMed:34239069, PubMed:35610220, PubMed:35714614, PubMed:35835867, PubMed:36087581, PubMed:36989299, PubMed:37327704, PubMed:37935376, PubMed:37935377, PubMed:37963465, PubMed:38168118, PubMed:38552625, PubMed:39103320). The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction (PubMed:29925951, PubMed:33762731, PubMed:34239069, PubMed:35610220, PubMed:35714614, PubMed:35835867, PubMed:36087581, PubMed:36989299, PubMed:37327704, PubMed:37935376, PubMed:37935377, PubMed:37963465, PubMed:38168118, PubMed:38552625, PubMed:39103320). Involved in bitter and sweet taste transduction as well as in umami (monosodium glutamate, monopotassium glutamate, and inosine monophosphate) taste transduction (PubMed:40339580, PubMed:38600377, PubMed:38776963).
Cellular Location	Cell membrane; Lipid-anchor; Cytoplasmic side
Tissue Location	Expressed in fetal tissues, including testis, adrenal gland, brain, white blood cells and brain

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