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GNB3 Rabbit pAb

Catalog # AP99968

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P16520
Other Accession	P16520
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	37221
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human G protein beta 3
Epitope Specificity	81-180/340
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 WD repeat G protein beta family. Contains 7 WD repeats.
SUBUNIT	G proteins are composed of 3 units, alpha, beta and gamma. Interacts with RASD2.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	G proteins are composed of 3 units, alpha, beta and gamma and are involved in the modulation and transduction of various transmembrane signalling systems. There are families of related genes for each subunit. GNB3 encodes a beta subunit. Beta subunits are required for GTPase activity, for replacement of GDP by GTP, regulate alpha subunits and for G protein-effector interactions. A single-nucleotide polymorphism (C825T) in this gene is associated with essential hypertension and obesity and is also associated with the occurrence of the splice variant GNB3-s, which appears to have increased activity.

Additional Information

Gene ID	2784
Other Names	CSNB1H; HG2D; Gnb-3; GBB3_HUMAN; GNB3; Transducin beta chain 3; GBB3_MOUSE; GBB3_RAT; G protein subunit beta 3; guanine nucleotide binding protein (G protein), beta polypeptide 3; Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-3
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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	GNB3
Function	Guanine nucleotide-binding proteins (G proteins) are involved as a modulator or transducer in various transmembrane signaling systems. The beta and gamma chains are required for the GTPase activity, for replacement of GDP by GTP, and for G protein-effector interaction.

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