10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-GNB1 Picoband Antibody

Catalog # ABO11685

Product Information

Application	WB, IHC, IHC-P, IHC-F, IF, IC, ICC
Primary Accession	P62873
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1(GNB1) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	2782
Other Names	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1, Transducin beta chain 1, GNB1
Calculated MW	37377
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 □g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat
Source	Eukaryota
Protein Name	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human GNB1 (2-42aa SELDQLRQEAEQLKNQIRDARKACADATLSQITNNIDPVGR), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.

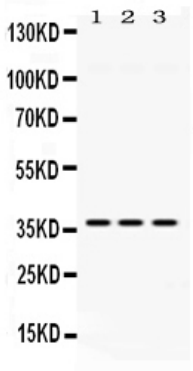
Protein Information

Name	GNB1 (HGNC:4396)
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:37991948, 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).

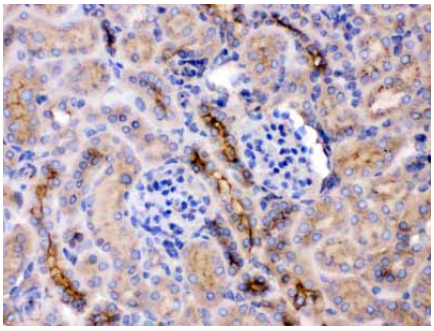
Background

Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1 is a protein that in humans is encoded by the GNB1 gene. Heterotrimeric guanine nucleotide-binding proteins (G proteins), which integrate signals between receptors and effector proteins, are composed of an alpha, a beta, and a gamma subunit. These subunits are encoded by families of related genes. This gene encodes a beta subunit. Beta subunits are important regulators of alpha subunits, as well as of certain signal transduction receptors and effectors. This gene uses alternative polyadenylation signals.

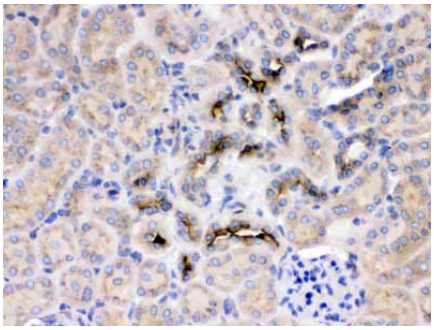
Images



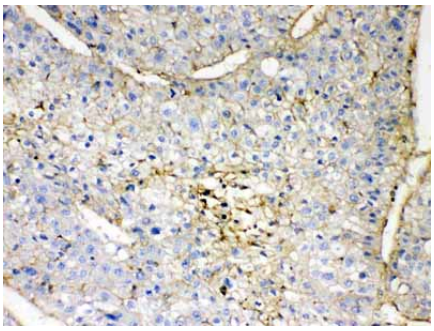
Western blot analysis of GNB1 expression in rat liver extract (lane 1), mouse cardiac muscle extract (lane 2) and HELA whole cell lysates (lane 3). GNB1 at 37KD was detected using rabbit anti- GNB1 Antigen Affinity purified polyclonal antibody (Catalog # ABO11685) at 0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .



GNB1 was detected in paraffin-embedded sections of mouse kidney tissues using rabbit anti- GNB1 Antigen Affinity purified polyclonal antibody (Catalog # ABO11685) at 1 □¼g/mL. The immunohistochemical section was developed using SABC method .



GNB1 was detected in paraffin-embedded sections of rat kidney tissues using rabbit anti- GNB1 Antigen Affinity purified polyclonal antibody (Catalog # ABO11685) at 1 □¼g/mL. The immunohistochemical section was developed using SABC method .



GNB1 was detected in paraffin-embedded sections of human liver cancer tissues using rabbit anti- GNB1 Antigen Affinity purified polyclonal antibody (Catalog # ABO11685) at 1 □¼g/mL. The immunohistochemical section was developed using SABC method .

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