



## Rabbit Anti-GNB5 antibody

SL13466R

<b>Product Name:</b>	GNB5
<b>Chinese Name:</b>	G蛋白β5/Gβ 5 抗体
<b>Alias:</b>	FLJ37457; FLJ43714; G protein beta 5 subunit; G protein beta subunit 5L; GB 5; GB5; GBB5_HUMAN; Gbeta5; GNB 5; GNB5; Guanine nucleotide binding protein (G protein) beta 5; Guanine nucleotide binding protein beta 5; Guanine nucleotide binding protein beta 5 subunit; Guanine nucleotide binding protein beta subunit 5L; Guanine nucleotide binding protein subunit beta 5; Guanine nucleotide-binding protein subunit beta-5; Transducin beta chain 5.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	44kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human GNB5:51-150/395
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. 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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	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. Alternatively spliced transcript variants encoding different isoforms exist. [provided by RefSeq, Jul 2008].

**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.

**Subunit:**

G proteins are composed of 3 units, alpha, beta and gamma. Component of the RGS9-1-Gbeta5 complex composed of RGS9 (isoform RGS9-1), Gbeta5 (GNB5) and RGS9BP (By similarity).

**Tissue Specificity:**

Expressed in multiple tissues.

**Similarity:**

Belongs to the WD repeat G protein beta family.  
Contains 7 WD repeats.

**SWISS:**

O14775

**Gene ID:**

10681

**Database links:**

[Entrez Gene: 10681](#)Human

[Entrez Gene: 14697](#)Mouse

[Entrez Gene: 83579](#)Rat

[Omim: 604447](#)Human

[SwissProt: O14775](#)Human

[SwissProt: P62881](#)Mouse

[SwissProt: P62882](#)Rat

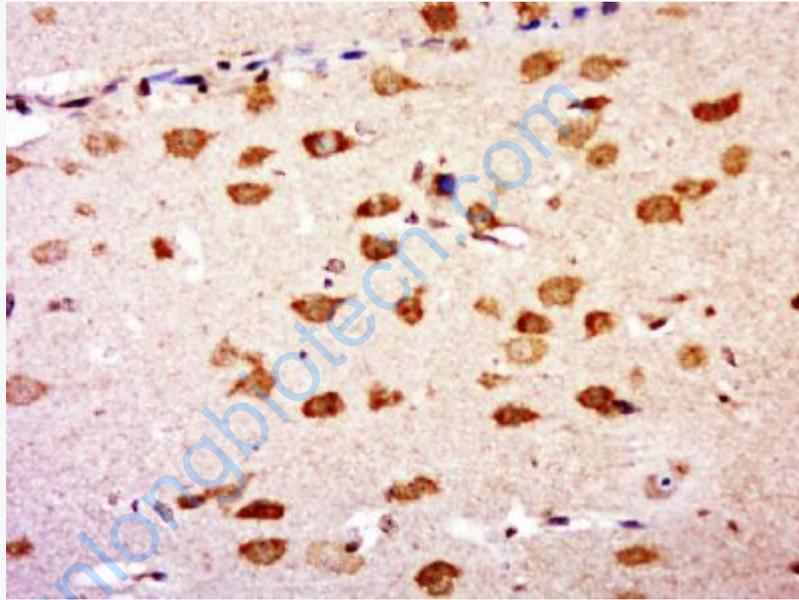
[Unigene: 155090](#)Human

[Unigene: 17604](#)Mouse

[Unigene: 23042](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



**Picture:**

Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GNB5) Polyclonal Antibody, Unconjugated (SL13466R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.