Datasheet for ABIN5518835

anti-GABBR1 antibody (AA 186-405)

1 Image

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Overview

Quantity:	100 µg
Target:	GABBR1
Binding Specificity:	AA 186-405
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GABBR1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-GABA B Receptor 1/GABBR1 Antibody Picoband®
Immunogen:	E.coli-derived human GABBR1 recombinant protein (Position: Q186-D405). Human GABBR1 shares 99.5% amino acid (aa) sequence identity with both mouse and rat GABBR1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-GABA B Receptor 1/GABBR1 Antibody Picoband® (ABIN5518835). Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	GABBR1
Alternative Name:	GABBR1 (GABBR1 Products)
Background:	Synonyms: Gamma-aminobutyric acid type B receptor subunit 1,GABA-B receptor 1,GABA-B-R1,GABA-BR1,GABABR1,Gb1,GABBR1,GPRC3A, Tissue Specificity: Highly expressed in brain and weakly in heart, small intestine and uterus. Isoform 1A is mostly expressed in granular cell and molecular layer. Isoform 1B is mostly expressed in Purkinje cells. Isoform 1E is predominantly expressed in peripheral tissues as kidney, lung, trachea, colon, small intestine, stomach, bone marrow, thymus and mammary gland. . Background: Gamma-aminobutyric acid (GABA) B receptor, 1 (GABAB1), is a G-protein coupled receptor subunit encoded by the GABBR1 gene. This gene encodes a receptor for gamma-aminobutyric acid (GABA), which is the main inhibitory neurotransmitter in the mammalian central nervous system. This receptor functions as a heterodimer with GABA (B) receptor 2. Defects in this gene may underlie brain disorders such as schizophrenia and epilepsy. Alternative splicing generates multiple transcript variants, but the full-length nature of some of these variants has not been determined.
Molecular Weight:	108 kDa
Gene ID:	2550
Pathways:	Positive Regulation of Peptide Hormone Secretion, cAMP Metabolic Process

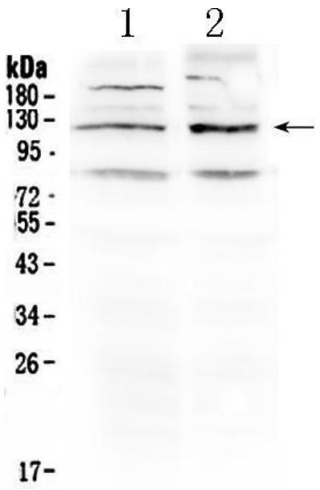
Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Mouse, Rat, Human 1. White JH, McIllhinney RA, Wise A, Ciruela F, Chan WY, Emson PC, Billinton A, Marshall FH (December 2000). "The GABAB receptor interacts ly with the related transcription factors CREB2 and ATFx". Proc. Natl. Acad. Sci. U.S.A. 97 (25): 13967-72. 2. White JH, Wise A, Main MJ, Green A, Fraser NJ, Disney GH, Barnes AA, Emson P, Foord SM, Marshall FH (December 1998). "Heterodimerization is required for the formation of a functional GABA(B) receptor". Nature. 396 (6712): 679-82.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of GABBR1 using anti-GABBR1 antibody . Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each Lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-GABBR1 antigen affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for GABBR1 at approximately

120KD. The expected band size for GABBR1 is at 108KD.