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Polyclonal Anti-GABRB3 Picoband™ Antibody

Catalog Number: PB9595

Description

Gene Name	gamma-aminobutyric acid (GABA) A receptor, beta 3
Recommended Protein Name	Gamma-aminobutyric acid receptor subunit beta-3
Lot No.	0951512Da909585
Size	100μg/vial
Form	lyophilized
Ig type	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purification	Immunogen affinity purified.
Species	**Reacts with:** mouse, rat **Predicted to work with:** human
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human GABRB3 (344-375aa EKTAKAKNDRSKSESNRVDAHGNILLTSLEVH), different from the related mouse and rat sequences by five amino acids.
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na_2HPO_4, 0.05mg Thimerosal, 0.05mg NaN_3.

Application

	Concentration	Tested Species	Predicted Species	Antigen Retrieval
Western blot	0.1-0.5μg/ml	Ms, Rat	Hu	-

Tested Species: In-house tested species with positive results.

Predicted Species: Species predicted to be fit for the product based on sequence similarities.

Other applications have not been tested.

Optimal dilutions should be determined by end users.

Preparation and storage

Reconstitution: 0.2ml of distilled water will yield a concentration of 500μg/ml.

Storage: At -20˚C for one year. After reconstitution, 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.

Relevant detection systems

Boster provides a series of assays reacted with primary antibodies. Antibody can be supported by chemiluminescence kit EK1002 in WB.

Background

This gene encodes a member of the ligand-gated ionic channel family. The encoded protein is one the subunits of a multi-subunit chloride channel that serves as the receptor for gamma-aminobutyric acid, a major inhibitory neurotransmitter of the mammalian nervous system. And this gene is located on the long arm of chromosome 15 in a cluster with two other genes encoding related subunits of the family. It may be associated with the pathogenesis of several disorders including Angelman syndrome, Prader-Willi syndrome, nonsyndromic orofacial clefts, epilepsy and autism. Alternatively spliced transcript variants encoding distinct isoforms have been described.

Reference

1. DeLorey TM, Sahbaie P, Hashemi E, Homanics GE, Clark JD (March 2008)."Gabrb3 gene deficient mice exhibit impaired social and exploratory behaviors, deficits in non-selective attention and hypoplasia of cerebellar vermal lobules: a potential model of autism spectrum disorder". Behav. Brain Res. 187 (2): 207–20.
2. "Entrez Gene: GABRB3 gamma-aminobutyric acid (GABA) A receptor, beta 3".