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Datasheet for ABIN2017587 anti-CNTNAP2 antibody (C-Term)

Publication



Overview

Quantity:	100 µg
Target:	CNTNAP2
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal

Product Details

Immunogen:	KLH-coupled synthetic peptide from C-terminal of human Caspr2.
Isotype:	lgG
Specificity:	Rabbit Anti-Caspr2 Polyclonal Antibody detects endogenous levels of mouse and rat Caspr2.
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Cross-Reactivity (Details):	It is predicted to react with human Caspr2 according to sequence homology. This product has not been tested for other species yet.
Characteristics:	Rabbit Anti-Caspr2 Polyclonal Antibody is developed in rabbit using a KLH-coupled synthetic peptide from C-terminal of human Caspr2 (Swiss Prot: Q9UHC6).
Purification:	Immunoaffinity chromatography
Target Details	

Target: CNTNAP2

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Target Details	
Alternative Name:	Caspr2 (CNTNAP2 Products)
Background:	Contacting-associated protein 2 (Caspr2) is a member of the neurexin superfamily that mediates nervous system cell-cell interactions. The C-terminal region of Caspr2 participates in the association with Kv1.1, Kv1.2 and their Kv-beta-2 subunit. Expression of Caspr2 is regulated directly by transcription factor FOXP2. Disruption or decreased expression of Caspr2 probably leads to a disturbed distribution of potassium channels in the nervous system. Mutations in the Caspr2 gene have been linked to many diseases such as focal epilepsy, autism spectrum disorder and cortical dysplasia-focal epilepsy syndrome (CDFES).
UniProt:	Q9UHC6
Application Details	
Comment:	Positive Control: mouse brain and rat brain.
Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Reconstitute the lyophilized powder with deionized water (or equivalent) to an antibody concentration of 0.5 mg/mL.
Concentration:	0.5 mg/mL
Buffer:	Lyophilized with PBS, pH 7.4, containing 0.02 % 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.
Handling Advice:	Avoid repeated freezing and thawing cycles.
Storage:	4 °C/-20 °C
Storage Comment:	The antibody is stable in lyophilized form if stored at -20°C or below. The reconstituted antibody can be stored for 2-3 weeks at 2-8°C. For long term storage, aliquot and store at -20°C or below.
Publications	
Product cited in:	Wang, Park, La Marca, Than, Lin: "BMP-2 inhibits tumor-initiating ability in human renal cancer

stem cells and induces bone formation." in: Journal of cancer research and clinical oncology,

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Clark, Milbrandt, Hilt, Puleo: "Mechanical properties and dual drug delivery application of poly(lactic-co-glycolic acid) scaffolds fabricated with a poly(?-amino ester) porogen." in: **Acta biomaterialia**, Vol. 10, Issue 5, pp. 2125-32, (2014) (PubMed).

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