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Datasheet for ABIN967780

## anti-CNTNAP1 antibody (AA 1-1513)

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### Overview

Quantity:	50 µg
Target:	CNTNAP1
Binding Specificity:	AA 1-1513
Reactivity:	Human, Mouse, Rat, Dog, Chicken, Frog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CNTNAP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)

### Product Details

Immunogen:	Human p190 aa. 1-1513
Clone:	30-p190
Isotype:	IgG1
Cross-Reactivity:	Dog (Canine), Rat (Rattus), Mouse (Murine), Chicken, Frog
Characteristics:	<ol style="list-style-type: none"><li>1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.</li><li>2. Please refer to us for technical protocols.</li><li>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.</li><li>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.</li></ol>

## Product Details

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**Purification:** The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

## Target Details

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**Target:** CNTNAP1

**Alternative Name:** p190 ([CNTNAP1 Products](#))

**Background:** GTPase activating proteins (GAPs) stimulate the GTP-hydrolyzing activity of GTPases, such as p21[ ras]. Ras-GAP (120kDa) is perhaps the best characterized GAP. p190 is a Ras-GAP associated protein that is tyrosine phosphorylated in transformed and growth factor-stimulated cells. Ras-GAP and p190 are targets of oncoproteins and growth factor receptors. Recombinant p190 enhances GTPase activity of the rho family of GTPases. The complete sequence of p190 exhibits three major regions: an N-terminal region with homology to all GTPases, a middle region homologous to transcriptional repressors, and a C-terminal region the is similar to n-chimerin and other small GTPases.

**Molecular Weight:** 190 kDa

**Pathways:** [Cell-Cell Junction Organization](#)

## Application Details

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

**Concentration:** 250 µg/mL

**Buffer:** Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % 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:** -20 °C

**Storage Comment:** Store undiluted at -20°C.

## Publications

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Product cited in:

Maddox, BurrIDGE: "RhoA is required for cortical retraction and rigidity during mitotic cell rounding." in: **The Journal of cell biology**, Vol. 160, Issue 2, pp. 255-65, (2003) ([PubMed](#)).

Wolf, Draghi, Liang, Dai, Uhrbom, Eklöf, Westermark, Holland, Resh: "p190RhoGAP can act to inhibit PDGF-induced gliomas in mice: a putative tumor suppressor encoded on human chromosome 19q13.3." in: **Genes & development**, Vol. 17, Issue 4, pp. 476-87, (2003) ([PubMed](#)).

Brandt, Gimona, Hillmann, Haller, Mischak: "Protein kinase C induces actin reorganization via a Src- and Rho-dependent pathway." in: **The Journal of biological chemistry**, Vol. 277, Issue 23, pp. 20903-10, (2002) ([PubMed](#)).

Nakahara, Mueller, Nomizu, Yamada, Yeh, Chen: "Activation of beta1 integrin signaling stimulates tyrosine phosphorylation of p190RhoGAP and membrane-protrusive activities at invadopodia." in: **The Journal of biological chemistry**, Vol. 273, Issue 1, pp. 9-12, (1998) ([PubMed](#)).

Settleman, Narasimhan, Foster, Weinberg: "Molecular cloning of cDNAs encoding the GAP-associated protein p190: implications for a signaling pathway from ras to the nucleus." in: **Cell**, Vol. 69, Issue 3, pp. 539-49, (1992) ([PubMed](#)).

## Images

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**Image 1.** Human Fibroblast



### Western Blotting

**Image 2.** Western blot analysis of p190 on HeLa lysate. Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of p190.