



## Rabbit Anti-Neuron navigator 1 antibody

SL11467R

<b>Product Name:</b>	Neuron navigator 1
<b>Chinese Name:</b>	神经细胞引领蛋白Nav1抗体
<b>Alias:</b>	Nav 1; Nav1; POMFIL 3; POMFIL3; Pore membrane and/or filament interacting like protein 3; Protein Steerin 1; Protein Steerin1; Steerin 1; Steerin1; unc-53 homolog 1; DKFZp781D0314; FLJ12560; FLJ14203; mNav1; NAV1_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,
<b>Applications:</b>	WB=1:500-2000ELISA=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>	202kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human Neuron navigator 1:1426-1475/1877
<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 癢 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癢. 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 癢.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Neuron navigator 1 is a 1877 amino acid cytoplasmic protein that is involved in neuronal migration. Neuron navigator 1 is widely expressed at low levels, though highest expression is found in both adult and fetal nervous tissue. Through interaction with

tubulin, Neuron navigator 1 associates with a subset of microtubule plus ends present in the growth cone. Overexpression of Neuron navigator 1 leads to microtubule bundling, whereas a reduction of its levels causes loss of directionality in the migration of pontine cell leading processes. There are seven isoforms of Neuron navigator 1 that are produced as a result of alternative splicing events.

**Function:**

The development of the nervous system (NS) requires the coordinated migration of multiple waves of neurons and subsequent processes of neurite maturation, both involving selective guidance mechanisms. In *Caenorhabditis elegans*, *unc-53* codes for a new multidomain protein involved in the directional migration of a subset of cells. We describe here the first functional characterization of the mouse homologue, mouse Neuron navigator 1 (mNAV1) expression is primarily restricted to the CNS during development. mNAV1 is a microtubules associated protein. The abolition of mNAV1 causes loss of directionality in the leading processes of pontine-migrating cells, providing evidence for a role of mNAV1 in mediating (Netrin1-induced) directional migration.

**Subunit:**

Interacts with tubulin

**Subcellular Location:**

Cytoplasm, cytoskeleton. Note=Associates with a subset of microtubule plus ends. Enriched in neuronal growth cones.

**Tissue Specificity:**

Broadly expressed at low levels. Expressed at high levels in heart, skeletal muscle and placenta.

**Similarity:**

Belongs to the Nav/*unc-53* family.

**SWISS:**

Q8NEY1

**Gene ID:**

89796

**Database links:**

[Entrez Gene: 89796](#)Human

[Entrez Gene: 215690](#)Mouse

[Omin: 611628](#)Human

[SwissProt: Q8NEY1](#)Human

[SwissProt: Q8CH77](#)Mouse

[Unigene: 585374](#)Human

[Unigene: 34977](#)Mouse

**Important Note:**

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

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