abcam

Product datasheet

Anti-Neuron navigator 1 antibody [KT124] ab201920

2 References

Overview

Product name	Anti-Neuron navigator 1 antibody [KT124]
Description	Rat monoclonal [KT124] to Neuron navigator 1
Host species	Rat
Tested applications	**Suitable for:** WB, ICC/IF
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Recombinant fragment corresponding to Human Neuron navigator 1 aa 700-1050. Database link: **Q8NEY1** Run BLAST with Run BLAST with
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituent: 99% PBS
Purity	Protein G purified
Purification notes	ab201920 is purified from culture supernatant using a protein G column.
Clonality	Monoclonal
Clone number	KT124
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab201920 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

Target

Relevance 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.

Cellular localization Cytoplasm › cytoskeleton. Note: Associates with a subset of microtubule plus ends. Enriched in neuronal growth cone.

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