10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Nestin Mouse mAb

Catalog # AP99560

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q6P5H2
Other Accession	Q6P5H2
Reactivity	Rat
Host	Mouse
Clonality	Monoclonal
Calculated MW	207124
Physical State	Liquid
Immunogen	Recombinant protein corresponding to Mouse Nestin
Isotype	IgG2b,k
Purity	affinity purified by Protein A
Buffer	PBS with 0.02% Proclin300,100 □g/ml BSA and 50% glycerol.
SIMILARITY	Belongs to the intermediate filament family.
SUBUNIT	Forms homodimers and homotetramers in vitro. In mixtures with other intermediate filament proteins such as vimentin and alpha-internexin, this protein preferentially forms heterodimers which can assemble to form intermediate filaments if nestin does not exceed 25%. Interacts with FHOD3.
Post-translational modifications	Constitutively phosphorylated. This increases during mitosis when the cytoplasmic intermediate filament network is reorganized.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Nestin is a Class VI intermediate filament expressed in the developing central nervous system (CNS) in early embryonic neuroepithelial stem cells. This protein has been widely used as a predominant marker for stem / progenitor cells, glioma cells, and tumor endothelial cells in the mammalian CNS. Furthermore, it is a superior angiogenic marker to evaluate neovascularity of endothelial cells in tumor.

Additional Information

Gene ID	18008
Other Names	Nbla00170; ESTM46; Ifaprc2; Marc2; RC2; NEST_HUMAN; NES; NEST_MOUSE; NEST_RAT; nestin
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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 °C.

Protein Information

Name	Nes
Function	Required for brain and eye development. Promotes the disassembly of phosphorylated vimentin intermediate filaments (IF) during mitosis and may play a role in the trafficking and distribution of IF proteins and other cellular factors to daughter cells during progenitor cell division (By similarity). Required for survival, renewal and mitogen-stimulated proliferation of neural progenitor cells.

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