

Nestin Rabbit pAb

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Catalog # AP52158

Product Information

Primary Accession	P21263
Reactivity	Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	208797
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from rat Nestin
Epitope Specificity	681-750/1893
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	cytoplasm
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

Other Names	Nestin, Nes
Dilution	Flow-Cyt=1 µg/Test
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 (By similarity). 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. Required for survival, renewal and mitogen-stimulated proliferation of neural progenitor cells.

Tissue Location

CNS stem cells.

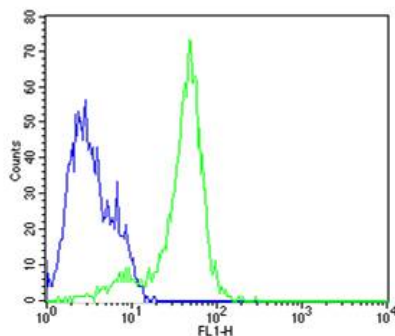
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References

Lendahl U.,et al.Cell 60:585-595(1990).
Chou Y.-H.,et al.Mol. Biol. Cell 14:1468-1478(2003).
Sahlgren C.M.,et al.J. Biol. Chem. 276:16456-16463(2001).
Kanaya H.,et al.Genes Cells 10:665-678(2005).
Xue X.J.,et al.Mol. Cell. Neurosci. 45:26-36(2010).

Images



Cell: Neuro-2a
Concentration:1:100
Host/Isotype:Rabbit/IgG
Flow cytometric analysis of Rabbit IgG isotype control on Neuro-2a(blue) compared with primary antibody(Cat#: AP52158)(green) followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG(H+L) secondary antibody .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.