

PE anti-Nestin Antibody

Catalog# / Size	656805 / 25 tests 656806 / 100 tests
Clone	10C2
Regulatory Status	RUO
Other Names	NES
Isotype	Mouse IgG1, κ
Description	Nestin is a class VI intermediate filament protein originally found in neuronal stem cells, and is required for survival and renewal of neural progenitor cells. In mixtures, Nestin forms heterodimers with vimentin or internexin, participating in the remodeling of the cell. Nestin was found to be expressed on vascular endothelial progenitor cells and various neoplasms. It is proposed to be a novel angiogenesis marker and cancer therapeutic target.

Product Details

Verified Reactivity	Human
Antibody Type	Monoclonal
Host Species	Mouse
Immunogen	Fusion protein
Formulation	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA)
Preparation	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions.
Concentration	Lot-specific (to obtain lot-specific concentration, please enter the lot number in our Concentration and Expiration Lookup or Certificate of Analysis online tools.)
Storage & Handling	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. Do not freeze.
Application	ICFC - Quality tested
Recommended Usage	Each lot of this antibody is quality control tested by intracellular flow cytometry using our True-Nuclear™ Transcription Factor Staining Protocol . For flow cytometric staining, the suggested use of this reagent is 5 µl per million cells in 100 µl staining volume or 5 µl per 100 µl of whole blood.
Excitation Laser	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
Application Notes	NOTE: For flow cytometric staining with this clone, True-Nuclear™ Transcription Factor Buffer Set (Cat. No. 424401) offers improved staining and is highly recommended.
Application References (PubMed link indicates BioLegend citation)	1. Jozef S, <i>et al.</i> 2012. <i>Biomed. Pap. Med. Fac.</i> 156:135. (IHC)
Product Citations	1. Kuang YL, <i>et al.</i> 2019. <i>Stem Cell Res.</i> 37:101434. PubMed 2. López-Valero I, <i>et al.</i> 2020. <i>Theranostics.</i> 10:5120. PubMed 3. Gerace D, <i>et al.</i> 2021. <i>Stem Cell Research.</i> 53:102371. PubMed
RRID	AB_2566381 (BioLegend Cat. No. 656805) AB_2566382 (BioLegend Cat. No. 656806)

Antigen Details

Structure	1621 amino acids with predicted molecular weight of 200-220 kD
Distribution	Cytosol
Function	Required for survival and renewal of neural progenitor cells; plays roles in angiogenesis and tumor formation
Interaction	Vimentin, alpha-internexin and FHOD3
Cell Type	Neural Stem Cells
Biology Area	Angiogenesis, Cell Biology, Cell Motility/Cytoskeleton/Structure, Immunology, Neuroscience, Neuroscience Cell Markers, Stem Cells
Molecular Family	Intermediate Filaments
Antigen References	<ol style="list-style-type: none">1. Matsuda Y, <i>et al.</i> 2013. <i>World J. Gastroenterol.</i> 19:42.2. Matsuda Y, <i>et al.</i> 2012. <i>Med. Mol. Morphol.</i> 45:59.3. Krupkova O Jr, <i>et al.</i> 2010. <i>Neoplasma.</i> 57:291.4. Hombach-Klonisch S, <i>et al.</i> 2008. <i>Arch. Immunol. Ther. Exp. (Warsz).</i> 56:165.5. Pilkington GJ, <i>et al.</i> 2005. <i>Cell Prolif.</i> 38:423.
Gene ID	10763

Related Protocols

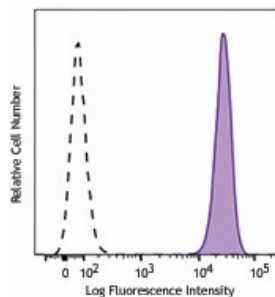
[True-Nuclear™ Transcription Factor Staining Protocol for 96-Well U Bottom Plate](#)

[True-Nuclear™ Transcription Factor Staining Protocol for 5mL Tubes](#)

Other Formats

Purified anti-Nestin, Alexa Fluor® 594 anti-Nestin, Brilliant Violet 421™ anti-Nestin, PE anti-Nestin, Alexa Fluor® 647 anti-Nestin, Direct-Blot™ HRP anti-Nestin, Alexa Fluor® 488 anti-Nestin

Product Data



HUVEC cells were treated with the True-Nuclear™ Transcription Factor Buffer Set, then stained with Nestin (clone 10C2) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

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