

Datasheet: OBT1610

BATCH NUMBER 162770

Description:	MOUSE ANTI HUMAN NESTIN
Specificity:	NESTIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	10C2
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			1/50 - 1/200
ELISA			▪	
Western Blotting	▪			1/500 - 1/1000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Cynomolgus monkey

Does not react with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Buffer Solution

Phosphate buffered saline

Preservative

0.1% Sodium Azide (NaN₃)

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

External Database Links

UniProt:
[P48681](#) [Related reagents](#)

Entrez Gene:
[10763](#) NES [Related reagents](#)

RRID AB_2151139

Specificity **Mouse anti Human Nestin antibody, clone 10C2** recognizes nestin, a large intermediate filament protein originally identified by ([Hockfield and McKay 1985](#)). Nestin is predominately expressed in stem cells of the developing nervous system. Terminal differentiation is associated with a loss of nestin expression. Nestin expression has also been noted in other embryonic tissues, also in most Glioblastoma multiformes and many melanomas

Western Blotting Suggested positive control: WI-38 or U251 cell lysate.

References

1. Hockfield, S. & McKay, R.D. (1985) Identification of major cell classes in the developing mammalian nervous system. [J Neurosci. 5 \(12\): 3310-28.](#)
 2. Martínez-Navarrete, G.C. *et al.* (2008) Gradual morphogenesis of retinal neurons in the peripheral retinal margin of adult monkeys and humans [J Comp Neurol. 511: 557-80.](#)
 3. González-Garza, M.T. *et al.* (2013) Differentiation of CD133+ stem cells from amyotrophic lateral sclerosis patients into preneuron cells. [Stem Cells Transl Med. 2 \(2\): 129-35.](#)
 4. Aljammal, K. (2015) Combined Expression of Nestin and SPARC Identifies *In Situ* Tumor Cells in Astrocytic Tumors of all Grades [J Cytol Histol. 6:313.](#)
 5. Sterlacci, W. *et al.* (2014) Putative stem cell markers in non-small-cell lung cancer: a clinicopathologic characterization. [J Thorac Oncol. 9 \(1\): 41-9.](#)
 6. Nowak, A. *et al.* (2017) Nestin-positive microvessel density is an independent prognostic factor in breast cancer. [Int J Oncol. Jun 26. \[Epub ahead of print\]](#)
 7. Arranz, L. *et al.* (2014) Neuropathy of haematopoietic stem cell niche is essential for myeloproliferative neoplasms. [Nature. 512 \(7512\): 78-81.](#)
 8. Del Toro, R. *et al.* (2016) Nestin(+) cells direct inflammatory cell migration in atherosclerosis. [Nat Commun. 7: 12706.](#)
 9. Forte, D. *et al.* (2020) Bone Marrow Mesenchymal Stem Cells Support Acute Myeloid Leukemia Bioenergetics and Enhance Antioxidant Defense and Escape from Chemotherapy. [Cell Metab. 32 \(5\): 829-843.e9.](#)
 10. Tampakis, A. *et al.* (2021) Nestin and CD34 expression in colorectal cancer predicts improved overall survival. [Acta Oncol. 60 \(6\): 727-34.](#)
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Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for

short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/OBT1610 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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