

Datasheet: OBT1610

BATCH NUMBER 162770

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|----------------------|-------------------------|
| 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.

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| Target Species | Human |
| Species Cross Reactivity | <p>Reacts with: Cynomolgus monkey</p> <p>Does not react with: Mouse, Rat</p> <p>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.</p> |
| Product Form | Purified IgG - liquid |
| Buffer Solution | Phosphate buffered saline |
| Preservative | 0.1% Sodium Azide (NaN ₃) |

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.](#)

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.

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

Related Products

Recommended Secondary Antibodies

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

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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