

## Datasheet: OBT1610

<b>Description:</b>	MOUSE ANTI HUMAN NESTIN
<b>Specificity:</b>	NESTIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	10C2
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	<p>Reacts with: Cynomolgus monkey</p> <p>Does not react with: Mouse, Rat</p> <p><b>N.B.</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>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Antibody purified from ascites
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P48681</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">10763</a>    NES    <a href="#">Related reagents</a></p>
<b>RRID</b>	AB_2151139
<b>Specificity</b>	<p><b>Mouse anti Human Nestin antibody, clone 10C2</b> recognizes nestin, a large intermediate filament protein originally identified by (<a href="#">Hockfield and McKay 1985</a>). 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</p>
<b>Western Blotting</b>	Suggested positive control: WI-38 or U251 cell lysate.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Martínez-Navarrete, G.C. <i>et al.</i> (2008) Gradual morphogenesis of retinal neurons in the peripheral retinal margin of adult monkeys and humans <a href="#">J Comp Neurol. 511: 557-80.</a></li> <li>2. González-Garza, M.T. <i>et al.</i> (2013) Differentiation of CD133+ stem cells from amyotrophic lateral sclerosis patients into preneuron cells. <a href="#">Stem Cells Transl Med. 2 (2): 129-35.</a></li> <li>3. Aljammal, K. (2015) Combined Expression of Nestin and SPARC Identifies <i>In Situ</i> Tumor Cells in Astrocytic Tumors of all Grades <a href="#">J Cytol Histol. 6:313.</a></li> <li>4. Sterlacci, W. <i>et al.</i> (2014) Putative stem cell markers in non-small-cell lung cancer: a clinicopathologic characterization. <a href="#">J Thorac Oncol. 9 (1): 41-9.</a></li> <li>5. Nowak, A. <i>et al.</i> (2017) Nestin-positive microvessel density is an independent prognostic factor in breast cancer. <a href="#">Int J Oncol. 51 (2): 668-76.</a></li> <li>6. Arranz, L. <i>et al.</i> (2014) Neuropathy of haematopoietic stem cell niche is essential for myeloproliferative neoplasms. <a href="#">Nature. 512 (7512): 78-81.</a></li> <li>7. Del Toro, R. <i>et al.</i> (2016) Nestin(+) cells direct inflammatory cell migration in atherosclerosis. <a href="#">Nat Commun. 7: 12706.</a></li> <li>8. Forte, D. <i>et al.</i> (2020) Bone Marrow Mesenchymal Stem Cells Support Acute Myeloid Leukemia Bioenergetics and Enhance Antioxidant Defense and Escape from Chemotherapy. <a href="#">Cell Metab. 32 (5): 829-843.e9.</a></li> <li>9. Tampakis, A. <i>et al.</i> (2021) Nestin and CD34 expression in colorectal cancer predicts improved overall survival. <a href="#">Acta Oncol. 60 (6): 727-34.</a></li> </ol>
<b>Storage</b>	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.

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

## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://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](http://bio-rad-antibodies.com/datasheets)  
'M437574:250316'

Printed on 07 Aug 2025