

Datasheet: OBT1610

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.
Product Form	Purified IgG - liquid
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
External Database Links	UniProt: P48681 Related reagents Entrez Gene: 10763 NES Related reagents

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 (ATCC# CCL75) 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. <i>et al.</i> (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. <i>et al.</i> (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 <i>In Situ</i> Tumor Cells in Astrocytic Tumors of all Grades J Cytol Histol. 6:313. 5. Sterlacci, W. <i>et al.</i> (2014) Putative stem cell markers in non-small-cell lung cancer: a clinicopathologic characterization. J Thorac Oncol. 9 (1): 41-9. 6. Nowak, A. <i>et al.</i> (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. <i>et al.</i> (2014) Neuropathy of haematopoietic stem cell niche is essential for myeloproliferative neoplasms. Nature. 512 (7512): 78-81. 8. Del Toro, R. <i>et al.</i> (2016) Nestin(+) cells direct inflammatory cell migration in atherosclerosis. Nat Commun. 7: 12706.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Shelf Life	12 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10303 available at: 10303: https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Human Anti Mouse IgG1 (HCA036...) [HRP](#)

Recommended Negative Controls

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

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