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### anti-Nestin antibody (AA 1484-1500)





**Publications** 



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0.101.1011			
Quantity:	100 μg		
Target:	Nestin (NES)		
Binding Specificity:	AA 1484-1500		
Reactivity:	Human		
Host:	Rabbit		
Clonality:	Polyclonal		
Conjugate:	This Nestin antibody is un-conjugated		
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA		
Product Details			
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated		
	immunizations with a recombinant protein corresponding to amino acids 1484-1500 of human		
	Nestin protein.		
	Immunogentype:Recombinant		
Isotype:	IgG		
Characteristics:	Concentration Definition: by UV absorbance at 280 nm		
Target Details			
Target:	Nestin (NES)		
Alternative Name:	Nestin (NES Products)		
Background:	Nestin, is a large intermediate filament protein (class Type VI) that was first identified with a		

monoclonal antibody by Hockfield and McKay (1985). Nestin is expressed predominantly in stem cells of the central nervous system in the neural tube. Nestin is expressed during development and in myotendinous and neuromuscular junctions. Nestin expression is restricted, typically disappearing by E18. Nestin is thought to be a reasonable neuronal marker; however, recent studies have found nestin expression in other cell types such as endothelial cells. Nestin expression is seen in almost all GBMs (Glioblastoma mulitformes) and many melanomas (both primary and metastatic) but not in any metastatic carcinomas. Upon terminal neural differentiation, nestin is downregulated and replaced by neurofilaments. Synonyms: nestin, ESTM 46 antibody, FLJ 21841 antibody, FLJ21841 antibody, Intermediate filament protein antibody

Gene ID:

10763, 38176300

UniProt:

P48681

#### **Application Details**

**Application Notes:** 

Affinity purified Anti-Nestin has been tested for use in ELISA, Immunohistochemistry (IHC) and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 200-220 kDa in size corresponding to Nestin protein by western blotting in the appropriate cell lysate or extract.

Restrictions:

For Research Use only

#### Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

#### **Publications**

Product cited in:

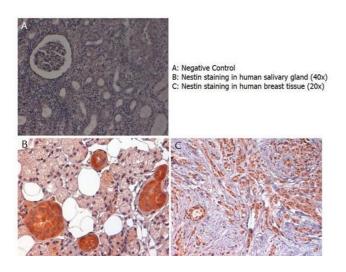
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Blume, Torner, Liu, Subburaju, Aguilera, Neumann: "Prolactin activates MAP kinase signaling and corticotropin releasing hormone (CRH) transcription in rat hypothalamic neurons." in: **Endocrinology**, (2008) (PubMed).

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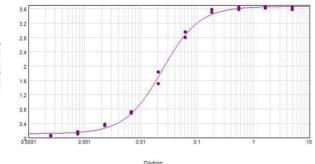
#### **Images**



#### **Immunohistochemistry**

Image 1. Immunohistochemistry with anti-nestin antibody showing nestin staining in cytoplasm of of ductal epithelium of human salivary gland (B) and in nucleus and cytoplasm of human breast tissue (C). Formalin fixed/paraffin embedded sections were subjected to heat induced epitope retrieval (HIER) at pH 6.2 and then incubated with rabbit anti-nestin antibody at 4.0 μg/ml for 60 minutes. The reaction was developed using MACH 1 universal HRP polymer detection system and visualized with 3'3-diaminobenzidine substrate (DAB).

## Anti-Nestin Sensitivity



#### **ELISA**

Image 2. ELISA results of purified Rabbit anti-Nestin Antibody tested against BSA-conjugated peptide of immunizing peptide. Each well was coated in duplicate with 0.1μg of conjugate. The starting dilution of antibody was 5μ g/ml and the X-axis represents the Log10 of a 3-fold dilution. This titration is a 4-parameter curve fit where the IC50 is defined as the titer of the antibody. Assay performed using 3% fish gel, Goat anti-Rabbit IgG Antibody Peroxidase Conjugated (Min X Bv Ch Gt GP Ham Hs Hu Ms Rt & Sh

Serum Proteins) and TMB ELISA Peroxidase Substrate.

#### **Western Blotting**

Image 3. Western blot using Affinity Purified anti-Nestin antibody shows detection of a band ~220 kDa corresponding to mouse Nestin (arrowhead). Approximately 30 g of MEF whole cell lysate was separated by SDS-PAGE using a 4-20% gradient gel. After transfer onto nitrocellulose, the membrane was blocked and then probed with the primary antibody diluted to 1:2,000 overnight at 4°C. The membrane was then washed and reacted with a 1:10,000 dilution of800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature. IRDye800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

Please check the product details page for more images. Overall 5 images are available for ABIN104564.