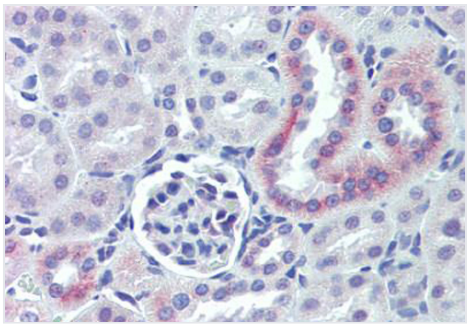
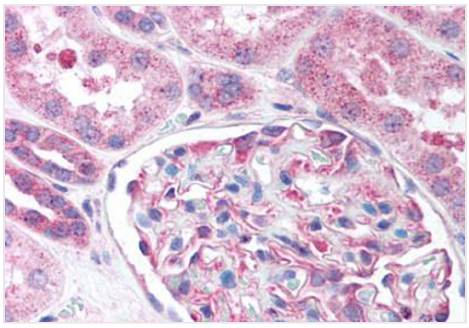
Nestin (NES) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

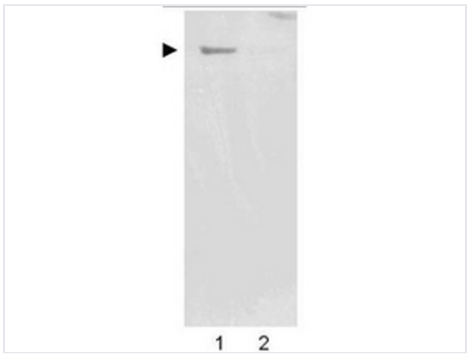
Product Name	Nestin, Polyclonal Antibody
Full Product Name	Rabbit Polyclonal to Human Nestin
Product Gene Name	anti-NES antibody
Product Synonym Names	Anti-Nestin Antibody (aa1484-1500) IHC-plus; Nestin; Nbla00170; Human Nestin
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	0.02 M potassium phosphate, 0.15 M sodium chloride, pH 7.2, 0.01% sodium azide.
Purity/Purification	Immunoaffinity Purified
Concentration	1 mg/ml (lot specific)
Specificity	Amino acids 1484-1500 of human Nestin protein.
Preparation and Storage	Long term: -20 degree C; Short term: +4 degree C; Avoid freeze-thaw cycles.
Molecular Weight	177,439 Da
OMIM	600915
3D Structure	ModBase 3D Structure for P48681
Target Species	Human
Immunogen Description	Recombinant human NES / Nestin.
Immunogen Type	Recombinant protein
Immunogen	Nestin antibody was raised against recombinant human NES / Nestin.
Antigen Modification	aa1484-1500
Applications Tested/Suitable for anti-NES antibody	Immunohistochemistry (IHC - Paraffin), Immunofluorescence (IF), Western Blot (WB), ELISA (EIA)
Application Notes for anti-NES antibody	ELISA (1:20000 - 1:80000), IF, IHC-P (5 ug/ml), WB (1:500 - 1:3000) Usage: Immunohistochemistry: was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues and a panel of mouse tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incu...
Related Product Information for anti-NES antibody	Nestin (NES) is an intermediate filament protein. Nestin is expressed predominantly in stem cells of the central nervous system in the neural tube. Upon terminal neural differentiation, nestin is downregulated and replaced by neurofilaments.
Other Notes	Small volumes of anti-NES antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NES purchase	MBS240258 is an antibody targeting NES. Also known as Rabbit Polyclonal to Human Nestin. Reactive in Human, Mouse. Host: Rabbit.



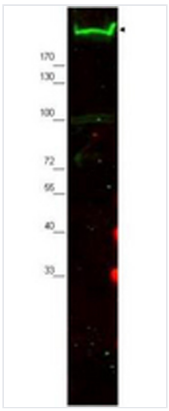
Immunohistochemistry (IHC) of anti-NES antibody
Anti-Nestin antibody IHC of mouse kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.



Immunohistochemistry (IHC) of anti-NES antibody
Anti-Nestin antibody IHC of human kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.



Immunohistochemistry (IHC) of anti-NES antibody
Anti-Nestin Antibody - Western Blot. Western blot of Affinity Purified anti-Nestin antibody shows detection of a band ~220 kD corresponding to human Nestin (arrowhead). Undifferentiated HCN-1A human brain cortical neuron neuronal progenitor lysate (lane 1), or differentiated HCN-1A human brain cortical neuron neuronal progenitor lysate (lane 2) were separated by SDS-PAGE using 4-20% gradient gel. After transfer onto nitrocellulose, the membrane was blocked and then probed with the primary antibody diluted to 1:2000 overnight at 4C. The membrane was then washed and reacted with a 1:10000 dilution of peroxidase conjugated affinity purified Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature. Image was captured using film. Other detection systems will yield similar results. Image courtesy of Prof. F. H. Gage of the Salk Institute, San Diego, CA.



Western Blot (WB) of anti-NES antibody
Anti-Nestin Antibody - Western Blot. Western blot of Affinity Purified anti-Nestin antibody shows detection of a band ~220 kD 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 1:2000 overnight at 4C. The membrane was then washed and reacted with a 1:10000 dilution of IRDye800 conjugated Gt-a-Rabbit IgG [H&L] MX (for 45 min at room temperature. IRDye800 fluorescence image was captured using the Odyssey Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NES. It may not necessarily be applicable to this product.

NCBI GI #	38176300
NCBI GeneID	10763
NCBI Accession #	NP_006608.1
UniProt Primary Accession #	P48681
UniProt Secondary Accession #	O00552; Q3LIF5; Q5SYZ6
UniProt Related Accession #	P48681
GenBank Nucleotide #	NM_006617.1
NCBI Official Full Name	nestin
NCBI Official Synonym Full Names	nestin
NCBI Official Symbol	NES
NCBI Official Synonym Symbols	Nbla00170
UniProt Protein Name	Nestin

Protein Family	Nestin
UniProt Gene Name	NES
UniProt Entry Name	NEST_HUMAN
NCBI Protein Information	nestin
NCBI Summary for NES	This gene encodes a member of the intermediate filament protein family and is expressed primarily in nerve cells. [provided by RefSeq, Sep 2011]
UniProt Comments for NES	nestin: an intermediate filament protein. It is expressed predominantly in stem cells of the central nervous system in the neural tube. Upon terminal neural differentiation, nestin is downregulated and replaced by neurofilaments. Protein type: Cytoskeletal Chromosomal Location of Human Ortholog: 1q23.1 Cellular Component: intermediate filament cytoskeleton; cytoplasm; intermediate filament Molecular Function: intermediate filament binding; structural molecule activity Biological Process: positive regulation of intermediate filament depolymerization; central nervous system development; negative regulation of catalytic activity; cell projection morphogenesis; negative regulation of neuron apoptosis; brain development; negative regulation of protein binding; G2/M transition of mitotic cell cycle; embryonic camera-type eye development
Research Articles on NES	**1.** nestin expression is a novel independent prognostic indicator for patients with UCB
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