

Mouse Nestin Monoclonal Antibody | anti-NES antibody

Anti-Nestin

CATALOG # AAA14229	HOST Mouse	APPLICATIONS Western Blot, Immunofluorescence
------------------------------	----------------------	---

PRODUCT SYNONYMS

Nestin; Monoclonal Antibody; Anti-Nestin; anti-NES antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG ₁
Clone Number	4D11
Specificity	Specific for the ~220-240 kDa nestin doublet in Western blots of rat brain homogenate.
Purity/Purification	Protein G purified culture supernatant
Form/Format	100ul in PBS + 50% Glycerol + 5 mM NaN ₃ . Adequate amount of material to conduct 10 mini Western blots.
Applicable Applications for anti-NES antibody	WB (Western Blot), IF (Immunofluorescence)
Application Notes	WB: 1:2,000 IF: 1:500
Quality Control Tests	Western blots performed on each lot.
Species Tested	Human, Mouse, Rat
Immunogen	Recombinant human Nestin expressed in and purified from E. coli
Preparation and Storage	Store at -20°C; stable for at least one year.

IMAGES



IS (Immunostaining)

Immunostaining of cultured E20 rat cortical neurons and glia stained with anti-nestin antibody (AAA14229, red, 1:500) and anti-MAP2 antibody (, green, 1:500). The blue is Hoechst staining for nuclear DNA. The nestin antibody labels developing astrocytes and neuronal stem cells in a clearly filamentous fashion, while the MAP2 antibody stains dendrites and perikarya of mature neurons.



WB (Western Blot)

ADDITIONAL INFORMATION

Related Product Information for anti-NES antibody	Target Description: Nestin is a member of the class IV intermediate filament protein family which is expressed in neuronal stem cells (Lendahl et al., 1990). Nestin was originally identified as a result of the production of a series of monoclonal antibodies directed against epitopes expressed on formalin fixed embryo day 15 rat spinal cord (Hockfield et al., 1985)). One of these antibodies, called Rat 401, stained fibrous profiles in the developing nervous system, but not in the mature nervous system. By screening bacteriophage expression libraries with Rat 401, Lendahl et al. were able to isolate a cDNA encoding the protein to which Rat 401 antibody bound. The protein proved to be an unusual member of the intermediate filament family, containing an alpha-helical region homologous to that found in keratin and neurofilament subunits.
References	• Lendahl U, Zimmerman LB and McKay RD. CNS stem cells express a new class of intermediate filament protein. Cell 60:585-95 (1990). • Hockfield S and McKay RD. Identification of major cell classes in the developing mammalian nervous system. J. Neurosci. 5:3310-3328 (1985).

NCBI AND UNIPROT INFORMATION

NCBI GI #	38176300
NCBI GeneID	10763
NCBI Accession #	NP_006608.1
NCBI GenBank Nucleotide #	NM_006617.1
UniProt Accession #	P48681; O00552; Q3LIF5; Q5SYZ6
Molecular Weight	220-240 kDa
NCBI Official Full Name	nestin
NCBI Official Synonym Full Names	nestin
NCBI Official Symbol	NES
NCBI Official Synonym Symbols	Nbla00170
NCBI Protein Information	nestin
UniProt Protein Name	Nestin
UniProt Gene Name	NES
UniProt Entry Name	NEST_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/nestin-antibody-clone-4d11-western-blot-immunofluorescence-elisa/14229>