

Nestin Polyclonal Antibody

CATALOG #:	3210-100
AMOUNT:	100 µg
HOST:	Rabbit
IMMUNOGEN:	Amino acids corresponding to 1450-1500 of human Nestin
SPECIES REACTIVITY:	Human, Chimpanzee
PREDICTED REACTIVITY:	Bovine, Dog, Hamster, Horse, Mouse, Rat
MOLECULAR WEIGHT:	177.439 kDa

FORMULATION:

100 µg (0.5 mg/ml) in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. This antibody is purified through a Protein A column, followed by peptide affinity purification.

STORAGE CONDITIONS:

Store at 2-8°C for 6 months. For long-term storage, aliquot and freeze at -20°C. Avoid repeated freeze/thaw cycles.

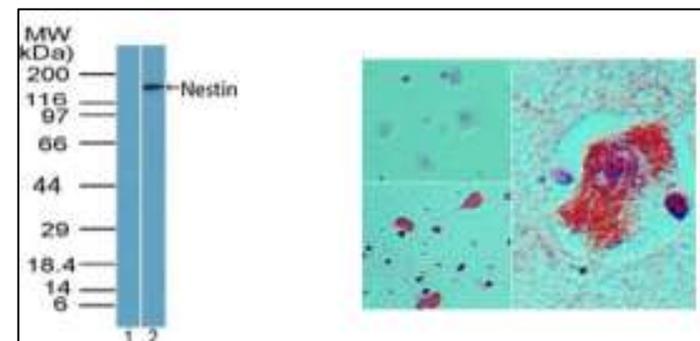
DESCRIPTION:

Nestin is a type IV intermediate filament protein expressed by neuroepithelial stem cells and which has been proposed to represent a marker for putative islet stem cells. Nestins are expressed by several types of cells during development, mostly in dividing cells of the Central Nervous System, Peripheral Nervous System and myogenic tissues. It also represents the progenitor population of neural stem cell origin. The role of nestin in dynamic cells, particularly structural organization of the cell, appears strictly regulated by phosphorylation, especially its integration into heterogeneous intermediate filaments together with vimentin or α -internexin. Nestin has recently received attention as a marker for detecting newly formed endothelial cells.

APPLICATION AND SPECIFICITY:

The antibody can be used for Western blot analysis (3-5 µg/ml) and IHC-paraffin (5 µg/ml). The amino acid sequence used as immunogen is 100% homologous in human (CRA_a and CRA_c) and chimpanzee, 88% homologous in hamster, mouse and rat, 82% homologous in bovine and horse, and 75% homologous in dog.

FOR RESEARCH USE ONLY! Not to be used on humans.



Western blot analysis of Nestin in human kidney lysate using 1) prebleed and 2) 3210-100 at 4 µg/ml.

Immunohistochemical analysis of Nestin in formalin-fixed, paraffin-embedded human brain tissue using an isotype control (top left) and 3210-100 (bottom left, right) at 5 µg/ml.

RELATED PRODUCTS:

- **3166-100:** Nestin Antibody
- **3208-100:** Nestin Polyclonal Antibody