

Basic Information

Product Name	Anti-Nestin/NES Antibody (Clone#FBH-14)		
Gene Name	NES		
Source	Rabbit		
Clonality	Monoclonal		
Isotype	IgG		
Species Reactivity	human, mouse, rat, pig		
Tested Application	WB, IHC, IF		
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.		
Immunogen	A synthesized peptide derived from human Nestin		
Concentration	500 ug/ml		
Purification	Affinity-chromatography		
Observed MW	270-300 kDa		
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200 Immunofluorescence (IF): 1:50-200		

Storage

12 months from date of receipt, -20°C as supplied.

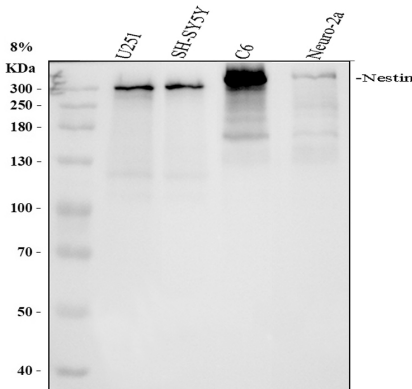
Background Information

Nestin is an intermediate filament family member protein that is structurally related to the neurofilament proteins. It is highly expressed in the developing brain, where it may help to regulate cell structure and intracellular processes required for neural cell division and migration. Upon maturation of the brain, nestin expression is quickly down-regulated and replaced by expression of the neurofilament proteins. Because nestin is expressed in both mature and precursor neuronal and glial cells, as well as in the developing brain and in the brain and spinal cord following damage, nestin is widely accepted as a marker of neural stem/progenitor cells. Expression of nestin is also found in cells from various nervous system tumors, including gliomas, neuroblastomas, astrocytomas, and is generally accepted as a marker for neural cancer stem cells. Nestin expression has also been observed in astrocytes, retina, cardiac muscle, pancreas and other tissues. Therefore, the acceptance of nestin as an exclusive marker of neural stem/progenitor cells is not unanimous.

Reference

Anti-Nestin/NES Antibody (Clone#FBH-14)被引用在8文献中。

Selected Validation Data



Western blot analysis of Nestin/NES using anti-Nestin/NES antibody (BM4494). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

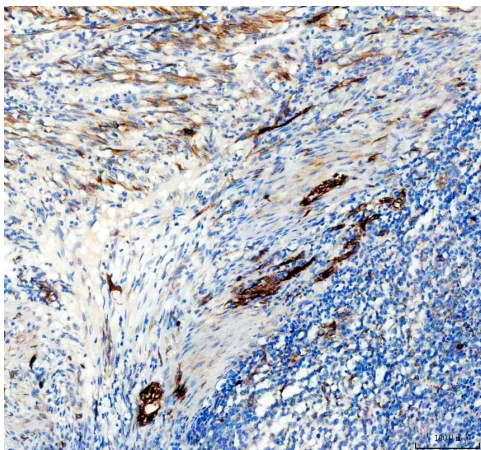
Lane 1: human U251 whole cell lysates,

Lane 2: human SH-SY5Y whole cell lysates,

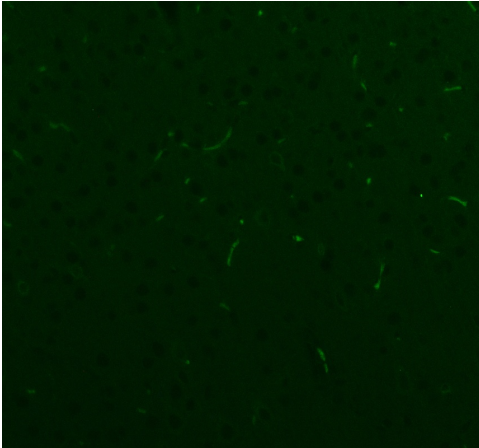
Lane 3: rat C6 whole cell lysates,

Lane 4: mouse Neuro-2a whole cell lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Nestin/NES antigen affinity purified monoclonal antibody (BM4494) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Nestin/NES at approximately 270-300 kDa. The expected band size for Nestin/NES is at 177 kDa.



IHC analysis of Nestin/NES using anti-Nestin/NES antibody (BM4494). Nestin/NES was detected in a paraffin-embedded section of human Diffuse large B-cell lymphoma of the intestine tissue. The tissue section was incubated with rabbit anti-Nestin/NES Antibody (BM4494) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



IF analysis of Nestin/NES using anti-Nestin/NES antibody (BM4494). Nestin/NES was detected in a paraffin-embedded section of rat brain tissue. The tissue section was incubated with rabbit anti-Nestin/NES Antibody (BM4494) at a dilution of 1:100. Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) was used as secondary antibody.