

Anti-Nestin/NES Antibody (1C457)

Product Details

Ig Type:	Mouse IgG2a
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	1C457
Purification:	Protein A

Applications

1. Immunochemical staining of human Nestin in human brain with mouse monoclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.
 2. Immunochemical staining of human Nestin in human neurilemmoma with mouse monoclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.
 3. Immunochemical staining of human Nestin in human fasciculated sarcoma with mouse monoclonal antibody at 1:1000 dilution, formalin-fixed paraffin embedded sections.
 4. Flow cytometric analysis of Human NES expression on SHSY5Y cells. The cells were treated according to manufacturer's manual (BD Pharmingen™ Cat. No. 554714), stained with purified anti-Human NES, then a FITC-conjugated second step antibody. The fluorescence histograms were derived from gated events with the forward and side light-scatter characteristics of intact cells.
 5. Anti-NES mouse monoclonal antibody at 1:500 dilution.
 - Lane A: HeLa Whole Cell Lysate.
 - Lane B: U251MG Whole Cell lysate.
 - Lysates/proteins at 30 µg per lane.
- Verified Activity:
- Secondary
 - Goat Anti-Mouse IgG (H+L)/HRP at 1/10000 dilution.
 - Developed using the ECL technique.
 - Performed under reducing conditions.
 - Predicted band size:177 kDa.
6. NES was immunoprecipitated using:
 - Lane A:0.5 mg U-251 MG Whole Cell Lysate.
 - 4 µL anti-NES mouse monoclonal antibody and 60 µg of Immunomagnetic beads Protein A/G.
 - Primary antibody:
 - Anti-NES mouse monoclonal antibody, at 1:100 dilution.
 - Secondary antibody:
 - Rabbit Anti-Mouse IgG F(ab)₂/HRP at 1/10000 dilution.
 - Developed using the ECL technique.
 - Performed under reducing conditions.
 - Predicted band size: 177 kDa.
 - Observed band size:177 kDa

A DRUG SCREENING EXPERT

Application: FCM,IHC-P,IP,WB

Recommended WB: 1:500-1:2000; IHC-P: 1:200-1:2000; FCM: 1:25-1:100; IP: 1-5 µL/mg of lysate

Properties

Stability & Storage: Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthetic peptide: N-terminus of the Human Nestin / NES

Antigen Species: Human

Research Background

NES (Nestin) is a Protein Coding gene. Nestin is a member of the class VI family of intermediate filament proteins, originally identified as a marker of neural stem cells and subsequently demonstrated to be expressed in breast cancer (BC) and other cancer types. Nestin is an intermediate filament protein and participates in the cytoskeleton organization. Nestin expression in the endothelium of blood vessels is mainly limited to newly forming vessels, thus being a more specific marker of angiogenesis than the commonly used vascular antigens. It is required for survival, renewal, and mitogen-stimulated proliferation of neural progenitor cells. Nestin is broadly expressed in the heart, fat, and other tissues. Diseases associated with NES include Ependyoblastoma and Periventricular Leukomalacia.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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