Human Nestin Antibody

Monoclonal Mouse IgG_1 Clone # 196908

Catalog Number: MAB1259

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Nestin.
Source	Monoclonal Mouse IgG_1 Clone # 196908
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Nestin
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

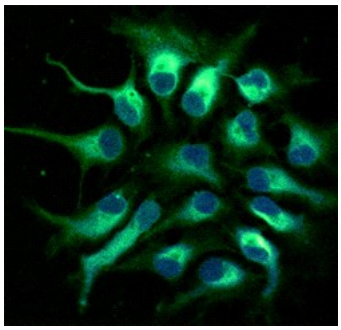
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below
Intracellular Staining by Flow Cytometry	2.5 µg/10^6 cells	A172 human glioblastoma cell line fixed with paraformaldehyde and permeabilized with saponin.

DATA

Immunocytochemistry



Nestin in Human Neural Progenitor Cells. Nestin was detected in immersion fixed human fetal neural progenitor cells using 10 µg/mL Human Nestin Monoclonal Antibody (Catalog # MAB1259) for 3 hours at room temperature. Cells were stained (green) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Nestin is a class VI intermediate filament protein (1, 2) that is expressed in stem cells of the central nervous system (CNS) (3) but not in mature CNS cells (4). Nestin expression is used extensively as a marker for CNS stem cells in the developing nervous system and *in vitro* cultured cells (5-10). Its transient expression is a critical step in the neural differentiation pathway (2). Nestin is also expressed in non-neural stem cell populations, such as pancreatic islet progenitors (11-13) and hematopoietic progenitors (14).

References:

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