

DESCRIPTION

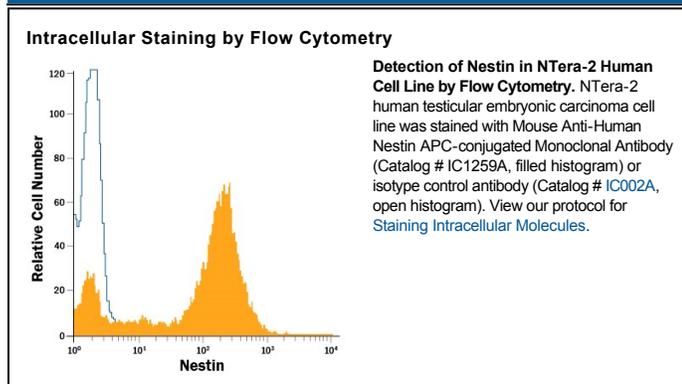
Species Reactivity	Human
Specificity	Detects human Nestin in flow cytometry.
Source	Monoclonal Mouse IgG ₁ Clone # 196908
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human Nestin Accession # P48681
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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
Intracellular Staining by Flow Cytometry	10 μ L/10 ⁶ cells	See Below

DATA



PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Nestin is a class VI intermediate filament protein that is expressed in stem cells of the central nervous system (CNS) but not in mature CNS cells. Nestin expression is used extensively as a marker for CNS stem cells in the developing nervous system and *in vitro* cultured cells. Its transient expression is a critical step in both the neural differentiation pathway and that of CNS glia. Nestin is also expressed in non-neural stem cell populations, such as pancreatic islet progenitors and hematopoietic progenitors. Full-length human Nestin shares 51% amino acid sequence identity to mouse Nestin.