

## DESCRIPTION

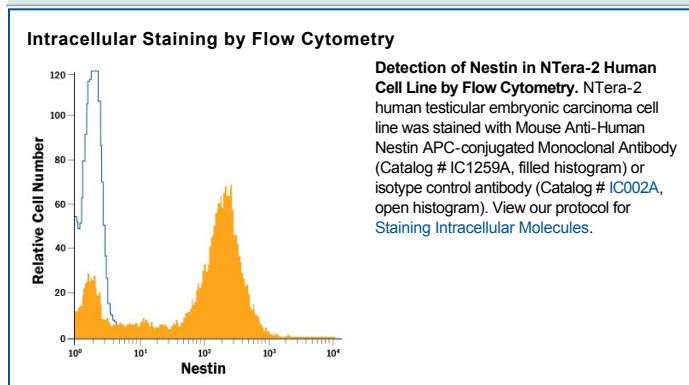
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Nestin in flow cytometry.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 196908
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	NS0 mouse myeloma cell line transfected with human Nestin Accession # P48681
<b>Conjugate</b>	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	10 $\mu$ L/10 <sup>6</sup> 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.**

- 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.