



Anti-Nestin

BACKGROUND

Nestin is an intermediate filament protein that is expressed in stem cells and progenitor cells in the mammalian central nervous system (CNS) during development. Nestin is replaced in the adult organism by other intermediate filament proteins, however, it may be re-expressed under certain pathological conditions such as ischemia, inflammation, brain injury, and neoplastic transformation. Nestin has been detected in many kinds of tumors, especially in tumors derived from the CNS, therefore it is considered to be a marker for cancer stem cells in neurogenic tumors.

The antibody was produced from the hybridoma cultured in serum-free medium and purified under mild conditions by propriety chromatography processes.

Product type	Primary antibodies
Host	Rat
Source	Supernatant
Form	Liquid Purified monoclonal antibody (IgG) 1mg/ml in PBS, 50% glycerol, filter-sterilized
Volume	200ug
Concentration	1 mg/ml
Specificity	Mouse Nestin.
Antigen	Mouse E16 embryonic cerebral cortex extracts
Clone	7A3
Isotype	Rat IgG2b κ

Application notes IC, IHC This antibody doesn't work in immunoblotting.
Other applications were not tested

Recommended use

This antibody is very useful for immunostaining of mouse embryonic brain because it is rat antibody.

Rat antibody has very low background in immunostaining using mouse tissues and is also useful for double-staining with mouse and rabbit antibodies.

Recommended dilutions

Optimal dilutions/concentrations should be determined by the end user.

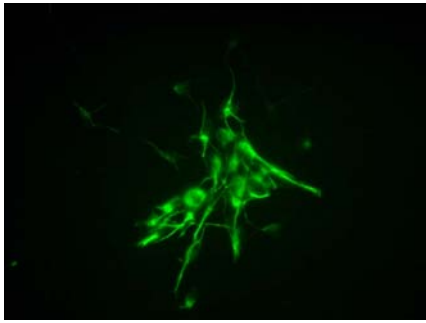
Staining Pattern

Cross reactivity Not tested with other species.

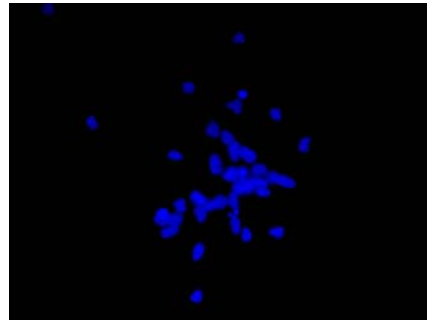
Storage -20 °C (long period, -70°C)

References 1) Hockfield, S., McKay, R.D. (1985) "Identification of major cell classes in the developing mammalian nervous system". J Neurosci. 5: 3310-3328.

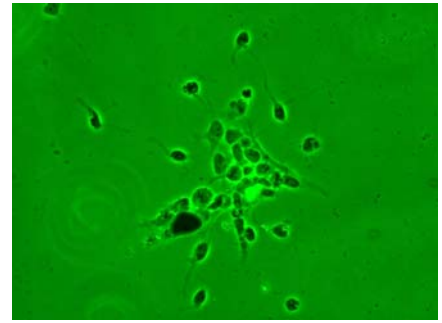
2) Gilyarov, A.V. (2008) "Nestin in central nervous system cells" Neuroscience and Behavioral Physiology 38:165-169.535-550.



7A3



Hoechst



bright-field image

Fig.1 Primary culture of neural progenitor cells from mouse fetal brain stained with 7A3 (Left), stained with Hoechst (Center), and without staining (Right).

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