

DESCRIPTION

Species Reactivity	Mouse/Rat
Specificity	Detects mouse and rat Nestin in Western blots.
Source	Monoclonal Mouse IgG _{2A} Clone # 307501
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant rat Nestin Met544-Glu820 (Gly756Asp, Ile758Met, Arg572Lys, Ala574Pro, Ile802Met, Arg816Lys) Accession # EDM00749
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

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 (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).

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