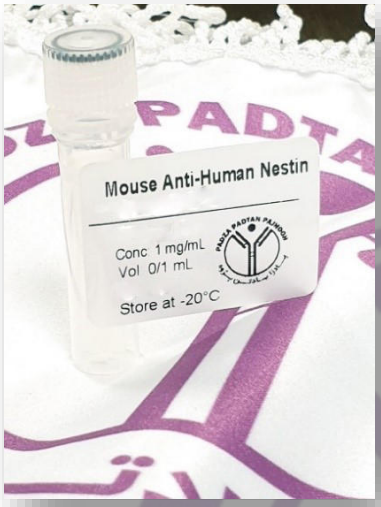
Product Datasheet



Mouse Anti-Human Nestin

Overview

Product number	**PDZMM116**
Host species	Mouse
Target species	Human, Horse, Rat, Dog, Bovine, Monkey
Suitable for:	IHC-P, WB, ELISA, Immunomicroscopy, Dot blot, ICC, IHC-Fr
Immunogen	A 12-mer peptide of PEVGDEEALRPL from human Nestin corresponding to amino acids 681–692 (NM_ 006617) was selected as immunogen.
Conjugation	Unconjugated

Properties

Form	Liquid
Storage instructions	Shipped at 4 °C. Store at -20 °C. Avoid freeze/thaw cycle. Please see notes section.
Storage buffer	Phosphate buffered saline pH 7.4, contains stabilizer and ≤0.09% sodium azide.
Purity	Immunogen affinity or SpG purified
Purification notes	This product was prepared by immunoaffinity chromatography using immunogen peptide coupled to Sepharose 4B.
Conjugation notes	-
Clonality	Monoclonal
Isotype	IgG
General notes	For extended storage aliquot contents and freeze at -20 °C or below. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use.

Our customer's feedback says the antibody worked great. If in case the antibody fails to give results then please contact our scientific support team for assistance.

Applications

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end-user.

Product Usage Information:

Application Dilutions

Western Blotting	3-5 ug/ml
Immunohistochemistry (Paraffin)	5-10 ug/ml
Immunohistochemistry (Frozen)	5-10 ug/ml
Immunofluorescence	5-10 ug/ml
Flow Cytometry	5-10 ug/ml

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

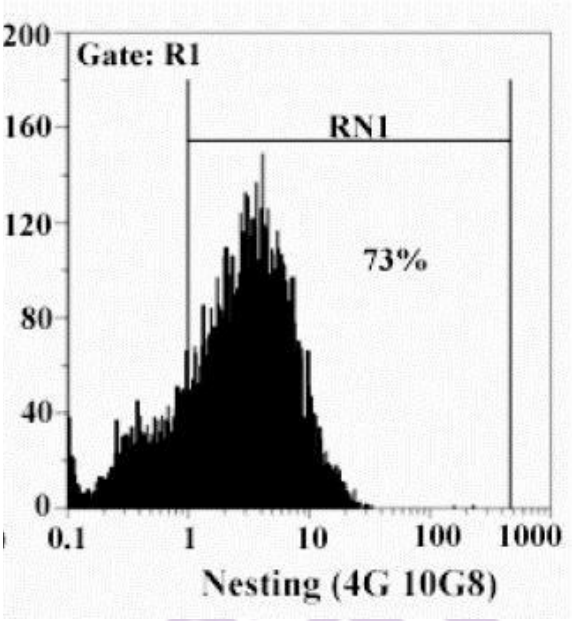
Background:
Nestin, a large intermediate filament protein (class Type VI) expressed during development and in myotendinous and neuromuscular junctions. Nestin expression is restricted, typically disappearing by E18. Nestin is thought to be a reasonable neuronal marker; however, recent studies have found nestin expression in other cell types such as endothelial cells {Folia Biologica, 44(5):155, 1998}. Nestin identifies the most primitive neuroepithelium but also identifies many other embryonic tissues, so it is not specific for CNS. Nestin expression is seen in almost all GBMs (Glioblastoma mulitformes) and many melanomas (both primary and metastatic) but not in any metastatic carcinoma.

Storage:
Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20 °C. After receiving aliquot the antibody and store at –20 °C.

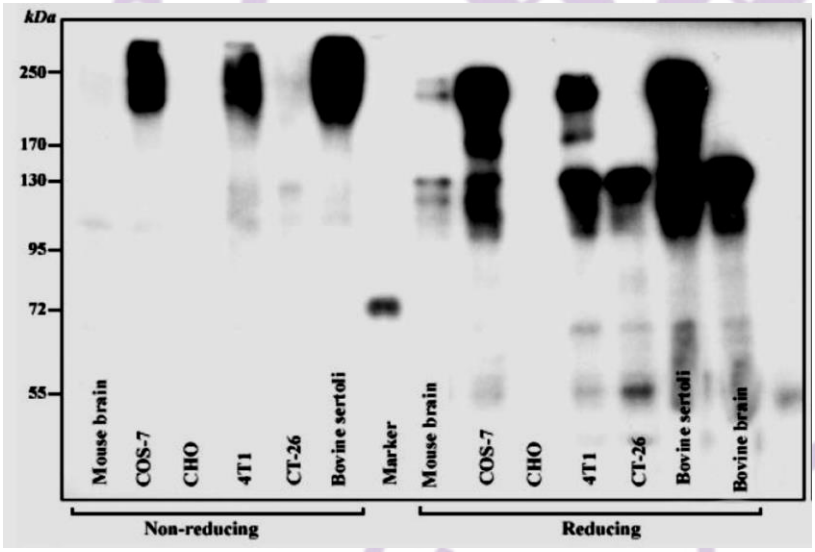
Terms and conditions
Guarantee only valid for products bought direct from PADZA or one of our authorized distributors

References:

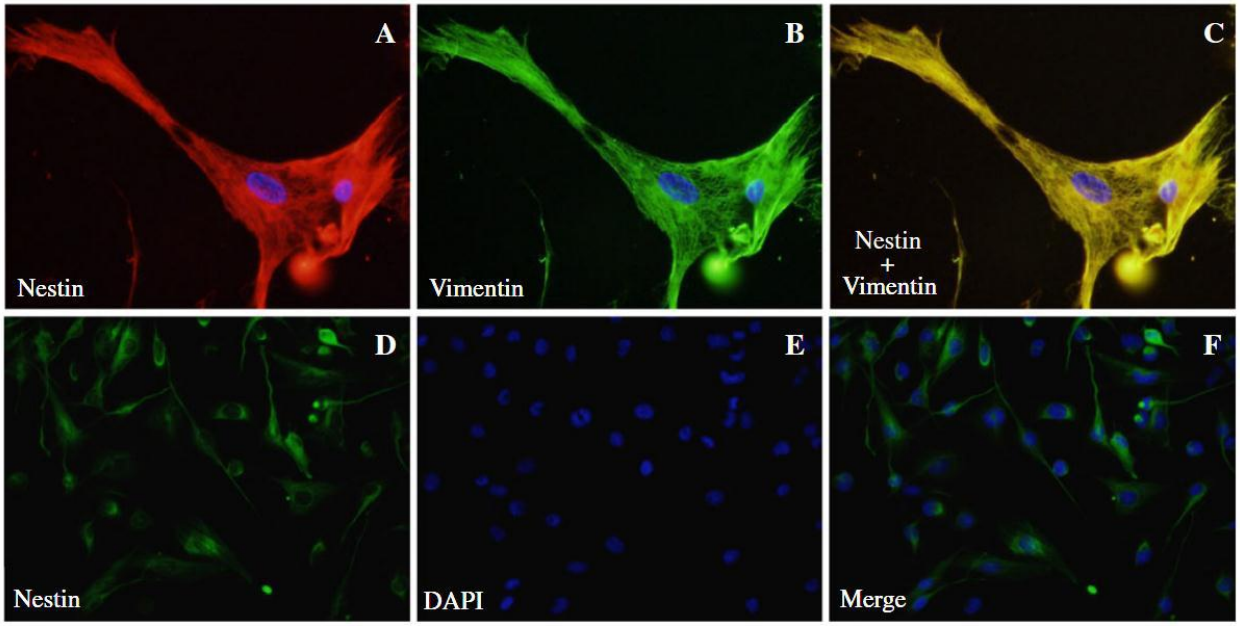
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3558152/
https://link.springer.com/article/10.1007/s00580-010-1105-3
https://asatid.tabrizu.ac.ir/PDF/786_f8696a17-fc42-4740-8e3b-c83b1a9debe6.pdf



Indirect intracellular staining of bovine sertoli cells and flow cytometry analysis using anti-nestin (4G10G8) antibody. FITC-conjugated rabbit anti-mouse was used as secondary antibody.



Western blot assay using 3 ug affinity-purified anti-nestin (4G10G8). Cell lysates and several cell lines from some species were run in a 6% SDS-PAGE under reducing and non-reducing conditions. Several bands ranging from 150–300 kDa were observed. HRP-conjugated rabbit anti-mouse was used as secondary antibody.



Immunocytochemical analysis of nestin expression by purified bovine sertoli cells. Sertoli cells were purified from mature bovine testis and immunostained with **a** nestin- and **b** vimentin-specific monoclonal antibodies. Nuclei were counterstained with DAPI. **c** Depicts merged pattern indicating co-expression of these intermediate filament proteins. U373 cell line served as positive cell control (**d** nestin,**e** DAPI, and **f** merged picture). Magnification:**a–c**,×400;d–f,×200

Note: This product has originally been developed at Avicenna Research Institute, Tehran, IRAN and assigned to PADZA Company according to contract 98/15/191dated 98/01/10.