Anti Human Nestin Antibody, clone 10C2
Mouse Anti-Human Monoclonal Antibody
Catalog # ABD13027

Specification

Anti Human Nestin Antibody, clone 10C2 - Product Information

Application  IHC-P, IHC
Primary Accession  P48681
Reactivity  Human
Host  Mouse
Clonality  Monoclonal
Isotype  IgG1
Clone Names  10C2
Calculated MW  177439

Anti Human Nestin Antibody, clone 10C2 - Additional Information

Other Species  M, Cynomolgus monkey
Gene ID  10763
Other Names  Nestin, NES

Target/Specificity
Mouse anti Human Nestin antibody, clone 10C2 recognizes nestin, a large intermediate filament protein originally identified by Hockfield and McKay (1985). Nestin is predominately expressed in stem cells of the developing nervous system. Terminal differentiation is associated with a loss of nestin expression. Nestin expression has also been noted in other embryonic tissues, also in most Glioblastoma multiformes and many melanomas.

Precautions
Anti Human Nestin Antibody, clone 10C2 is for research use only and not for use in diagnostic or therapeutic procedures.

Anti Human Nestin Antibody, clone 10C2 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence

Published customer image: Mouse anti Human Nestin antibody, clone 10 C2 used for the identification of nestin expressing cells in human biopsies by immunohistochemistry on formalin fixed, paraffin embedded tissue sections. Image caption: Representative micrographs of fetal, epileptic and gliotic tissues immunostained for nestin, SPARC and IDH1. IDH1 was not expressed in these control brain samples, whereas nestin was highly expressed in fetal tissue, not in epilepsy (except one single cell shown in inlet), but was present in reactive glial cells in gliotic tissue (black arrows) and in microvessels (white arrows). SPARC was expressed in reactive glial cells in gliotic tissue (black arrows), as well as in rare cells in epileptic tissue (black arrows), in addition to some vascular cells (white arrows). Original magnification x400. Scale bar: 100 µm. From: Aljammal K, Ritz MF, Ramadoss A, Sauter G, Boulay JL, et al. Combined Expression of Nestin and SPARC Identifies In Situ Tumor Cells in Astrocytic Tumors of all Grades. J Cytol Histol 6: 313.
- Immunoprecipitation
- Flow Cytometry
- Cell Culture

**Published customer image:** Mouse anti Human Nestin antibody, clone 10 C2 used for the identification of nestin expressing cells in human biopsies by immunohistochemistry on formalin fixed, paraffin embedded tissue sections. Image caption: Overview of representative punches of control and tumor tissue samples stained with Hematoxylin/Eosin (H/E) or immunostained for the 24 specific proteins grouped by categories. From: Aljammal K, Ritz MF, Ramadoss A, Sauter G, Boulay JL, et al. Combined Expression of Nestin and SPARC Identifies In Situ Tumor Cells in Astrocytic Tumors of all Grades. J Cytol Histol 6: 313.

**Published customer image:** Mouse anti Human Nestin antibody, clone 10 C2 used for the identification of nestin expressing cells in human biopsies by immunohistochemistry on formalin fixed, paraffin embedded tissue sections. Image caption: Representative micrographs of medulloblastoma and metastasis immunostained for nestin, SPARC and IDH1. Nestin was mainly observed expressed by tumor vasculature and some rare tumor cells. SPARC expression was strong in medulloblastoma cells and the cells constituting the rosette in the metastasis. No IDH1 staining was observed in these two cases. Original magnification x400. Scale bar: 100 µm. From: Aljammal K, Ritz MF, Ramadoss A, Sauter G, Boulay JL, et al. Combined Expression of Nestin and SPARC Identifies In Situ Tumor Cells in Astrocytic Tumors of all Grades. J Cytol Histol 6: 313.
Published customer image: Mouse anti Human Nestin antibody, clone 10 C2 used for the identification of nestin expressing cells in human biopsies by immunohistochemistry on formalin fixed, paraffin embedded tissue sections. Image caption: Representative micrographs of two cases of low grade astrocytomas immunostained for nestin, SPARC and IDH1. Case 1 expressed the mutated IDH1 protein, whereas case 2 was clearly IDH1-negative. Both cases were nestin and SPARC immunopositive. The center (c) and periphery (p) of the corresponding tumors are depicted for each case. Original magnification x400. Scale bar: 100 µm. From: Aljammal K, Ritz MF, Ramadoss A, Sauter G, Boulay JL, et al. Combined Expression of Nestin and SPARC Identifies In Situ Tumor Cells in Astrocytic Tumors of all Grades. J Cytol Histol 6: 313.

Published customer image: Mouse anti Human Nestin antibody, clone 10 C2 used for the identification of nestin expressing cells in human biopsies by immunohistochemistry on formalin fixed, paraffin embedded tissue sections. Image caption: Representative micrographs of the tumor centers of two cases of sGBM with low SPARC immunostaining. The two cases (case 1 and 2) showed high cellularity, with strong nuclear expression of PCNA and p53 in almost all cells, in addition to the expression of IDH1. Case 1 showed low number of nestin-positive cells, whereas case 2 revealed strong nestin immunostaining in all cells at the “hot spots” indicated by black arrowheads. Original magnification x400. Scale bar: 100 µm. From: Aljammal K, Ritz MF, Ramadoss A, Sauter G, Boulay JL, et al. Combined Expression of Nestin and SPARC
Identifies In Situ Tumor Cells in Astrocytic Tumors of all Grades. J Cytol Histol 6: 313.