



# Mouse Anti-Rat Nestin monoclonal antibody, clone 418612 (CABT-L4260)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Specificity</b>	Detects mouse and rat Nestin in Western blots.
<b>Immunogen</b>	E. coli-derived recombinant rat Nestin. Met544-Glu820
<b>Isotype</b>	IgG2a
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Mouse, Rat
<b>Clone</b>	418612
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB, ICC
<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Format</b>	Lyophilized
<b>Size</b>	100 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose.
<b>Preservative</b>	None
<b>Storage</b>	Short Term: 2-8°C. Long Term: -20°C. Avoid repeated freezing and thawing.
<b>Ship</b>	Wet ice

# BACKGROUND

## Introduction

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-neuronal stem cell populations, such as pancreatic islet progenitors and hematopoietic progenitors. Full-length human Nestin shares 51% amino acid sequence identity to mouse Nestin.

## Keywords

NES;nestin;paranemin;transitin;FLJ21841;OTTHUMP00000032198

# GENE INFORMATION

## Official Symbol

Nestin