

## ARG30008 Neuron Development Marker Antibody Duo (Nestin, Tuj1)

Package: 1 pair  
Store at: -20°C

### Component

Cat. No.	Component Name	Host clonality	Reactivity	Application	Package
ARG52345	anti-Nestin antibody [4D11]	Mouse mAb	Hu, Ms, Rat	ICC/IF, IHC-P, WB	50 µl
ARG65321	anti-beta III Tubulin antibody	Goat pAb	Hu	WB	50 µg

### Summary

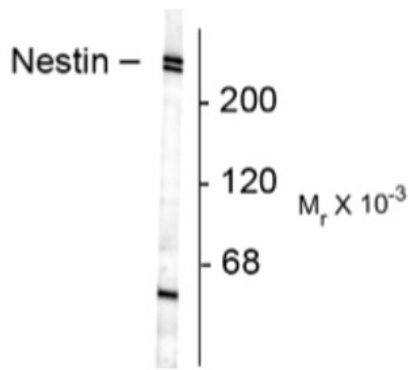
<b>Product Description</b>	<p>During embryonic neurogenesis, neural progenitors give rise to intermediate progenitors, before they are further differentiated into premature neurons. In the telencephalon, neural progenitor cells express Nestin and losses its expression soon after they committed their fate to becoming neurons. Premature neurons express Tuj1/TUBB3, which has been commonly used as a marker to identify neural differentiation in the developing brain or even in stem cell studies.</p> <p>arigo grouped Nestin and Tuj1 as control duo to offer reliable antibodies for the distinction of neural progenitors and premature neurons during the development of the central nervous system.</p> <p>Related news: <a href="#">Neuronal Development Marker</a></p>
<b>Target Name</b>	Neuron Development Marker
<b>Alternate Names</b>	Neuron Development Marker antibody; Nestin antibody; beta III Tubulin antibody

### Properties

<b>Storage instruction</b>	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
<b>Note</b>	For laboratory research only, not for drug, diagnostic or other use.

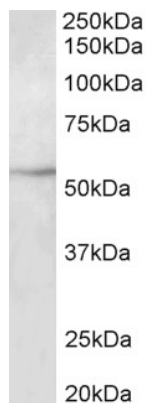
### Bioinformation

<b>Gene Full Name</b>	Antibody Duo for Neuron Development Marker (Nestin, Tuj1)
<b>Research Area</b>	Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody; Developmental Biology antibody; Neuroscience antibody; Signaling Transduction antibody



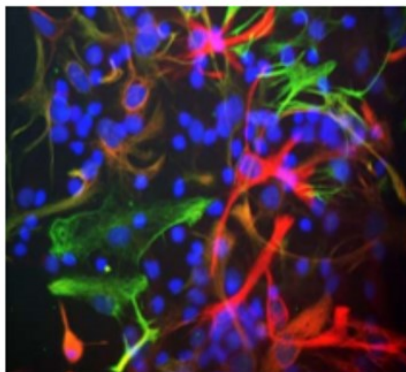
ARG52345 anti-Nestin antibody [4D11] WB image

Western Blot: neonatal rat brain lysate stained with Nestin antibody (ARG52345) showing specific immunolabeling of the ~220-240 kDa nestin doublet.



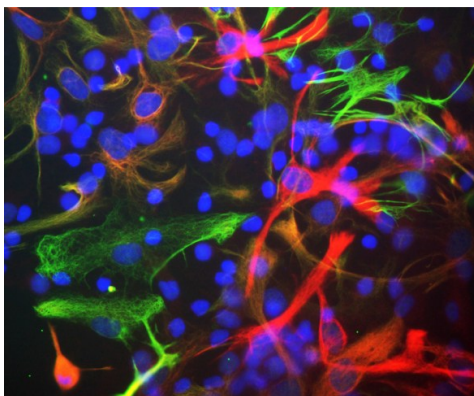
ARG65321 anti-TUBB3 antibody WB image

Western Blot: HepG2 lysate (35 µg protein in RIPA buffer) stained with ARG65321 anti-Tubulin beta III antibody at 2 µg/ml dilution.



ARG52345 anti-Nestin antibody [4D11] ICC/IF image

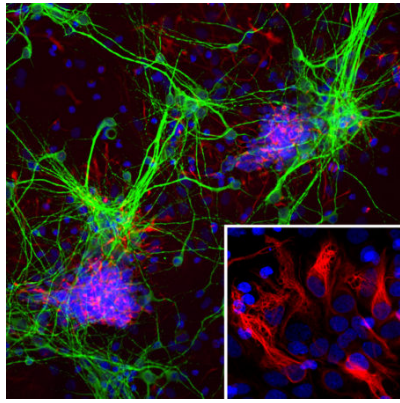
Immunofluorescence: cultured neonatal rat neurons and glia showing nestin labeling in red (ARG52345 Nestin antibody [4D11]) and vimentin (ARG52468 anti-Vimentin antibody) in green. Astrocytes and neuronal stem cells stain strongly and specifically in a clearly filamentous fashion with the anti-Nestin antibody. The presence of Nestin indicates that the cells are developing astrocytes, neuroblasts or undifferentiated neural stem cells.



ARG52345 anti-Nestin antibody [4D11] ICC/IF image

Immunofluorescence: Cultured neonatal Rat neurons and glia showing nestin labeling in red (ARG52345 Nestin antibody [4D11]) and vimentin (ARG52468 anti-Vimentin antibody) in green.

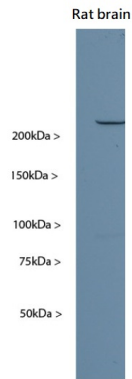
Astrocytes and neuronal stem cells stain strongly and specifically in a clearly filamentous fashion with the anti-Nestin antibody. The presence of Nestin indicates that the cells are developing astrocytes, neuroblasts or undifferentiated neural stem cells.



#### ARG52345 anti-Nestin antibody [4D11] ICC/IF image

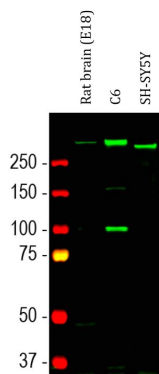
Immunofluorescence: Cortical neuron-glia cells from E20 Rat stained with ARG52345 anti-Nestin antibody [4D11] (red) at 1:500 dilution and costained with [ARG52328](#) anti-MAP2 antibody (green) at 1:5000 dilution. Hoechst (blue) for nuclear staining.

The Nestin antibody labels developing astrocytes and neuronal stem cells in a clearly filamentous fashion, while the MAP2 antibody stains dendrites and perikarya of mature neurons.



#### ARG52345 anti-Nestin antibody [4D11] WB image

Western blot: Rat brain (P18) homogenate stained with ARG52345 anti-Nestin antibody [4D11].



#### ARG52345 anti-Nestin antibody [4D11] WB image

Western blot: Rat brain (embryonic, E18), C6 and SH-SY5Y cell lysates stained with ARG52345 anti-Nestin antibody [4D11] (green) at 1:500 dilution.