ARG30093
Hippocampal Neurogenesis Marker Antibody Duo (Prox1, Dcx)

Package: 1 pair
Store at: -20°C

Component

Cat. No.	Component Name	Host clonality	Reactivity	Application	Package
ARG52403	anti-Prox 1 antibody [5G10]	Mouse mAb	Chk, Hu, Ms, Rat	IHC-P	50 µl
ARG52266	anti-Doublecortin antibody [3 e1]	Mouse mAb	Bov, Hu, Ms, Rat	ICC/IF, IHC-Fr, WB	50 µl

Summary

Product Description

Prox1 is a homeobox transcription factor that is essential for the generation of many organs during embryogenesis. It also plays a critical role in neurogenesis in the embryonic CNS and adult hippocampus. Prox1 postmitotically defines dentate gyrus cells by specifying granule cell identity over CA3 pyramidal cell fate in the hippocampus. It is used as a marker for intermediate progenitor cells.

Doublecortin (DCX) is a microtubule-associated protein required for normal migration of neurons into the cerebral cortex. In the adult hippocampus, DCX is used as marker for immature neuronal cells in dentate gyrus.

arigo's ARG30093 Hippocampal Neurogenesis Marker Antibody Duo (Prox1, Dcx) is excellent for studying Hippocampal Neurogenesis in adult.

Related news:
"Pro-aging factor" tied to immune-related molecule

Target Name

Hippocampal Neurogenesis Marker

Alternate Names

Hippocampal Neurogenesis Marker antibody; Doublecortin antibody; Prox 1 antibody

Properties

Storage instruction

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.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

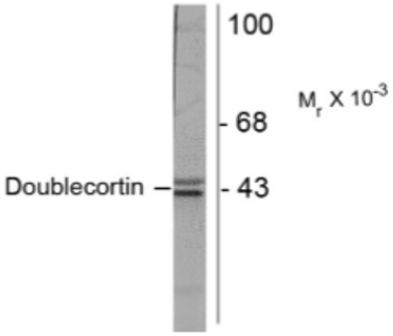
Gene Full Name

Antibody Duo for Hippocampal Neurogenesis Marker (Prox1, Dcx)

Research Area

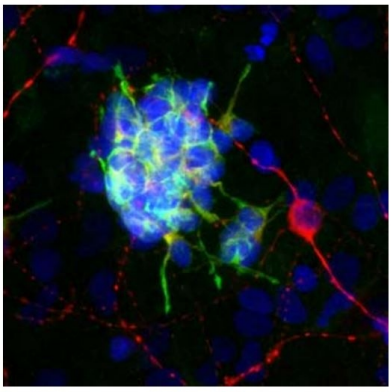
Cell Biology and Cellular Response antibody; Controls and Markers antibody; Gene Regulation antibody; Neuroscience antibody

Images



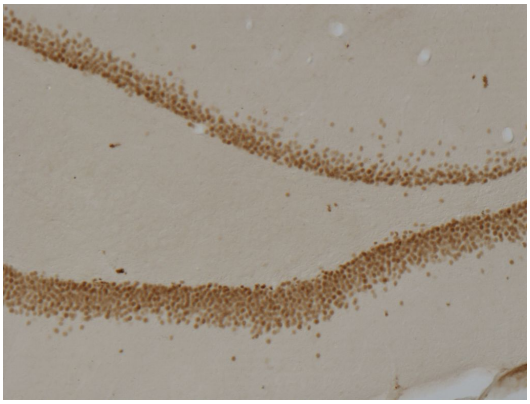
ARG52266 anti-Doublecortin antibody [3 e1] WB image

Western Blot: postnatal day 3 rat brain lysate stained with Doublecortin antibody (ARG52266) showing specific immunolabeling of the ~35 & 45k doublecortin protein.



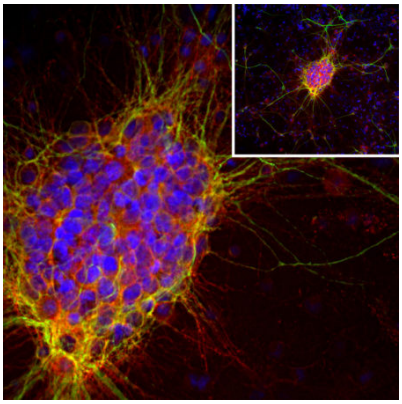
ARG52266 anti-Doublecortin antibody [3 e1] ICC/IF image

Immunofluorescence: cultured rat neurons showing strong cytoplasmic staining of doublecortin (green)(ARG52266) in developing neurons and GFAP (ARG52313) in red.



ARG52403 anti-Prox 1 antibody [5G10] IHC-P image

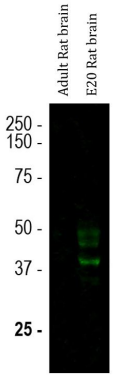
Immunohistochemistry: Rat dentate gyrus showing specific immunolabeling of the prox1 protein stained with ARG52403 anti-Prox 1 antibody [5G10]



ARG52266 anti-Doublecortin antibody [3 e1] ICC/IF image

Immunofluorescence: Cortical neuron-glial cell culture from E20 Rat stained with ARG52266 anti-Doublecortin antibody [3 e1] (red) at 1:1000 dilution, and costained with anti-MAP2 antibody (green) at 1:10000 dilution. DAPI (blue) for nuclear staining.

The Doublecortin antibody reveals strong cytoplasmic staining in a population of small developing neurons and their processes, while the MAP2 antibody stains dendrites and perikarya of mature neurons.



ARG52266 anti-Doublecortin antibody [3 e1] WB image

Western blot: Adult Rat brain (negative control) and embryonic E20 Rat brain lysates stained with ARG52266 anti-Doublecortin antibody [3 e1] (green) at 1:1000 dilution.