ARG52283
anti-FOX3 / NeuN antibody [1B7]

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1B7] recognizes FOX3 / NeuN
Tested Reactivity	Hu, Ms, Rat, Bov, Cat, Chk, Dog, Goat, Pig
Tested Application	ICC/IF, IHC-Fr, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	1B7
Isotype	IgG2a
Target Name	FOX3 / NeuN
Species	Human
Immunogen	Recombinant protein taken from the N-terminus of human FOX3 expressed in and purified from E. Coli
Conjugation	Un-conjugated
Alternate Names	RNA binding protein fox-1 homolog 3; NEUN; FOX-3; HRNBP3; Fox-1 homolog C; FOX3

Application Instructions

Application table

Application	Dilution
ICC/IF	1:200 - 1:1000
IHC-Fr	1:200 - 1:1000
IHC-P	1:200 - 1:1000
WB	1:1000 - 1:2000

Application Note: Specific for the ~46/48k FOX3 protein doublet
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

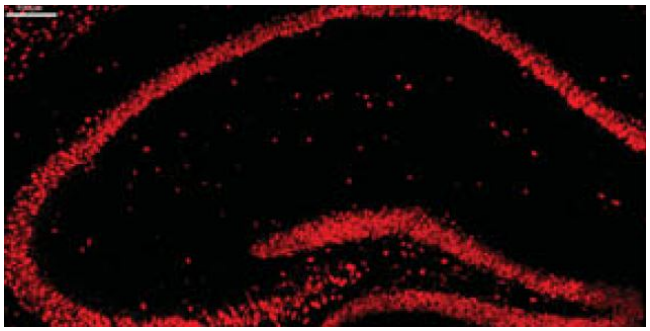
Form	Liquid
Purification	Affinity Purified
Buffer	PBS and 10 mM Sodium azide.
Preservative	10 mM Sodium azide
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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 Symbol	RBFOX3
Gene Full Name	RNA binding protein, fox-1 homolog (C. elegans) 3
Background	FOX3, also known as NeuN and hexaribonucleotide binding protein 3, is a neuron-specific RNA binding nuclear protein involved in the regulation of pre-mRNA alternative splicing (Kim et al., 2009). FOX3 dependent alternative splicing of Numb has recently been shown to play an important role in the progression of neuronal differentiation during vertebrate development (Kim et al., 2013).
Highlight	Related products: FOX3 antibodies; Anti-Mouse IgG secondary antibodies; Related news: Stem cell and the regenerative medicine: Ready for the patients Neuronal Development Marker
Research Area	Controls and Markers antibody; Gene Regulation antibody; Neuroscience antibody
Calculated Mw	34 kDa

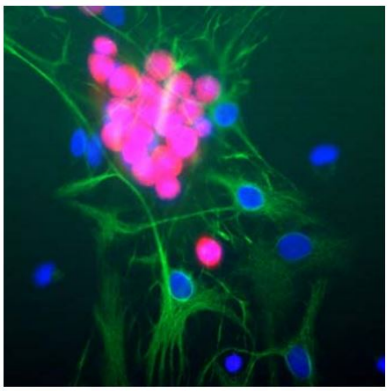
Images



ARG52283 anti-FOX3 / NeuN antibody [1B7] IHC-Fr image

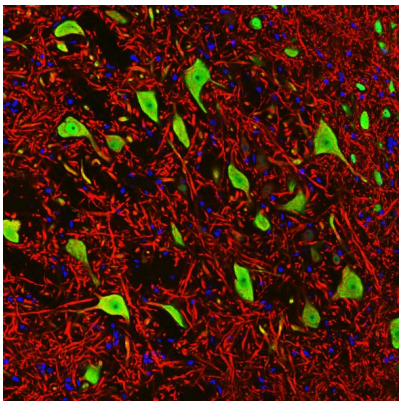
Immunohistochemistry: Frozen Mouse hippocampus. stained with ARG52283 anti-FOX3 / NeuN antibody [1B7].

From Tang M et al. Pharm Biol. (2022), doi: 10.1080/13880209.2022.2108064, Fig. 4. A.



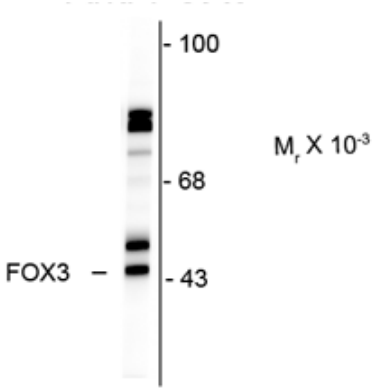
ARG52283 anti-FOX3 / NeuN antibody [1B7] ICC/IF image

Immunofluorescence: Cultured Rat neurons stained with ARG52283 anti-FOX3 / NeuN antibody [1B7] showing strong nuclear and distal cytoplasmic staining of FOX3 in red and the complete absence of astrocyte staining, which are stained in green with ARG52313 anti-GFAP antibody.



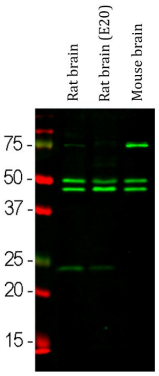
ARG52283 anti-FOX3 / NeuN antibody [1B7] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Rat brain stem neurons stained with ARG52283 anti-FOX3 / NeuN antibody [1B7] (green) and counter stained with anti-MAP2 antibody (red). The nuclei of cells are revealed with DAPI in blue.



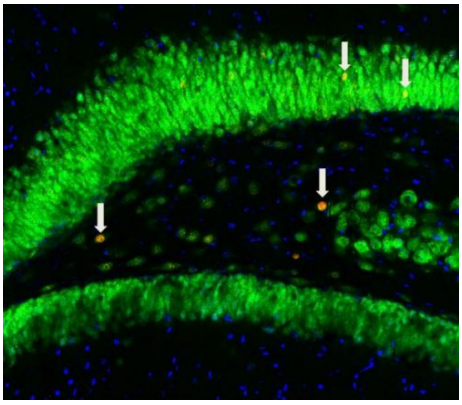
ARG52283 anti-FOX3 / NeuN antibody [1B7] WB image

Western Blot: Rat cortex lysate showing specific immunolabeling of the ~46/48k FOX3 protein stained with ARG52283 anti-FOX3 / NeuN antibody [1B7].



ARG52283 anti-FOX3 / NeuN antibody [1B7] WB image

Western blot: Rat brain, Rat brain (embryonic, E20) and Mouse brain lysates stained with ARG52283 anti-FOX3 / NeuN antibody [1B7] (green) at 1:1000 dilution.



ARG52283 anti-FOX3 / NeuN antibody [1B7] IHC-FoFr image

Immunohistochemistry: Adult Rat hippocampus stained with anti-c-Fos antibody (red) and DNA (blue). ARG52283 anti-FOX3 / NeuN antibody [1B7] (green) reveals strong nuclear and distal cytoplasmic staining for hippocampal neurons and the complete absence of staining of nonneuronal cells.

A few spontaneously active cells show in addition expression of c-Fos (arrowed). ARG52283 is therefore and excellent marker of neuronal activation.