Mouse monoclonal antibody to NeuN/Fox3 [1B7] (1-99): IgG

Catalogue No.:	M-377-100
Description:	Fox3 is one of a family of mammalian homologues of Fox-1. The Fox proteins are about 46kDa in size, and each includes a central highly conserved RRM type RNA recognition motif. Much interest has focused on Fox3 as a result of the recent finding that this protein corresponds to NeuN, a neuronal nuclear antigen. NeuN/Fox-3 has a function in RNA splicing and is expressed heavily and specifically in neuronal nuclei and cytoplasm. Our antibody was raised against the N-terminal 100 amino acids of human Fox3 as expressed in and purified from E. coli. We did not use full length Fox3 as immunogen since the three mammalian Fox homologues, namely Fox1, Fox2 and Fox3, include virtually identical RRM motifs. The N-terminal region of the three molecules are much more variable in the three molecules so antibodies specific for each of the three molecules can therefore be generated.
Batch No.:	See product label
Unit size:	100 uL
Antigen:	Antibody was raised against the N-terminal 100 amino acids of human Fox3 as expressed in and purified from E. coli.
Sequence:	MAQPYPPAQYPPPPQNGIPAEYAPPPPHPTQDYSGQTPVPTEHGMTLYTPAQTHPEQPGS EASTQPIAGTQTVPQTDEAAQTDSQPLHPSDPTEKQQPKR
Antigen Location:	1-99
Antigen Length:	100
Antibody Type:	Monoclonal
Isotype:	IgG2a
Clone:	1B7
Other Names:	Feminizing locus on X; Fox-1; Fox3; NeuN;
Accession:	A6NFN3 FOX1C_HUMAN;
Produced in:	Mouse
Applications:	Western Blotting (WB), Immunohistochemistry (IHC) and Immunocytochemistry (IC). A dilution of 1:5,000 - 1:10,000 is recommended for WB. A dilution of 1:1,000 is recommended for IHC. A dilution of 1:500 - 1:1,000 is recommended for IC. Biosensis recommends optimal dilutions/concentrations should be determined by the end user.
Specificity:	The specificity of this antibody has been confirmed by WB. Two alternate transcripts can be seen at 46 kDa and 48 kDa.
Antibody Against:	NeuN/Fox3
Cross-reactivity:	Hu, Rat, Ms, Bov, Porcine
Form:	Lyophilised from PBS, pH 7.4, with 3% trehalose, without preservatives.
Appearance:	White powder
Reconstitution:	Reconstitute in sterile distilled water. Centrifuge to remove any insoluble material.
Storage:	Store lyophilized antibody at 2-8C for up to 12 months after date of receipt. After reconstitution

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of lyophilised antibody, aliquot and store at -20C for up to 6 months for a higher stability. Avoid freeze-thaw cycles.

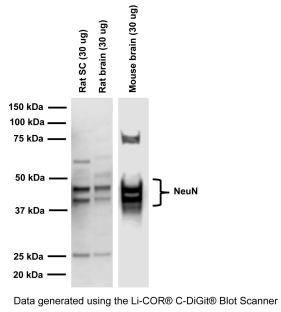
Expiry Date: 12 months after purchase (lyophilized)

Specific References: Han Y & Zhou X-F, (2019) "Method of Producing Multipotent Stem Cells." US Patent US 10,196,606 B2. Application: ICC. Species: Human

Santos J et al., (2017) "Proteomic Analysis of Human Adipose Derived Stem Cells during Small Molecule Chemical Stimulated Pre-neuronal Differentiation." Int J Stem Cells. 2017; 10(2):193-217. Application: WB. Species: Human

Hamanoue M et al., (2016) "Cell-permeable p38 MAP kinase promotes migration of adult neural stem/progenitor cells" Sci Rep. 6:24279. Application: Western Blotting. Species: Mouse

Han YC et al., (2016) "Direct Reprogramming of Mouse Fibroblasts to Neural Stem Cells by Small Molecules" Stem Cells Int. 2016; 2016:4304916. Application: IF. Species: Mouse



Western blot analysis of NeuN expression in rodent tissue homogenates. Mouse monoclonal antibody to NeuN/Fox3 detects expected doublet band for NeuN at ~46-48 kDa. Additional, uncharacterized bands are observed. SDS-PAGE: denatured, reduced; Transfer: Tris-Glycine buffer; Membrane: PVDF (0.45 µm); Blocking: 5% skim milk in TBST, 1 hour at RT; Primary antibody: overnight at 2-8°C (1/2000); Secondary antibody: anti-mouse-HRP (1/10000) 2 hours at RT; Detection: Chemiluminiscence.

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