

Product Datasheet

Alpha Fodrin Antibody (3D7) - BSA Free NBP1-92689

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-92689

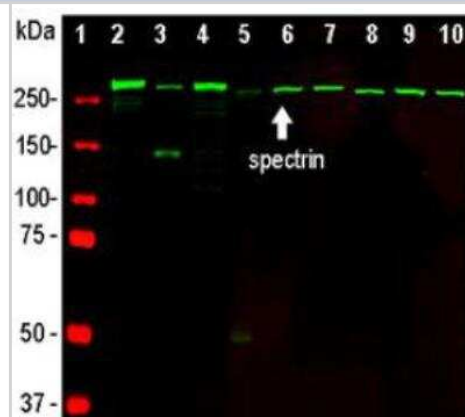
Alpha Fodrin Antibody (3D7) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	3D7
Preservative	0.035% Sodium Azide
Isotype	IgG1
Purity	Immunogen affinity purified
Buffer	50% PBS, 50% glycerol
Target Molecular Weight	240 kDa
Product Description	
Host	Mouse
Gene ID	6709
Gene Symbol	SPTAN1
Species	Human, Mouse, Rat
Immunogen	Recombinant construct (expressed in and purified from E. coli) containing the 19th and 20th spectrin repeats and C-terminal EF hand domains of human alpha Fodrin (amino acids 2086-2447) [UniProt# Q13813].
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:3000, Immunohistochemistry 1:500, Immunocytochemistry/ Immunofluorescence 1:500
Application Notes	This Alpha Fodrin (3D7) antibody is useful for Immunocytochemistry/Immunofluorescence, Immunohistochemistry, and Western blot, where a band can be seen at approximately 240 kDa.

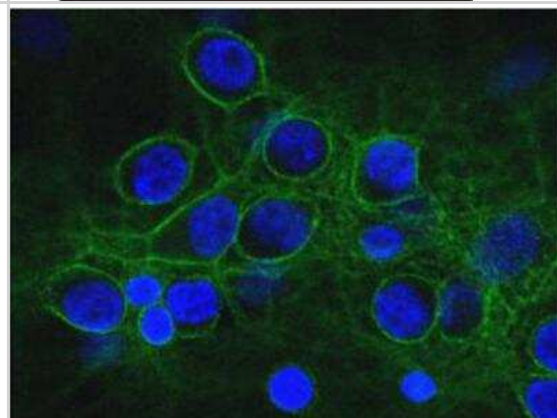


Images

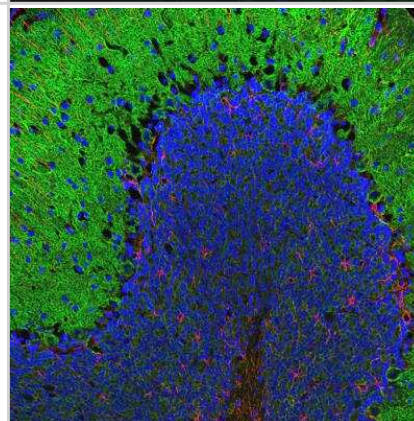
Western Blot: Alpha Fodrin Antibody (3D7) [NBP1-92689] - Analysis of neural tissue and cell lysates using mouse mAb to alpha-II spectrin (NBP1-92689, green). [1] protein standard, [2] rat whole brain, [3] rat spinal cord, [4] mouse whole brain, [5] mouse spinal cord, [6] NIH-3T3, [7] HEK293, [8] HeLa, [9] SH-SY5Y, [10] C6 cells. A prominent band at about 250-260 kDa represents the intact alpha-II spectrin heavy chain in neural tissues or cell lines, but not in HeLa.



Immunocytochemistry/Immunofluorescence: Alpha Fodrin Antibody (3D7) [NBP1-92689] - Confocal image of mixed neuron-glia cultures stained with NBP1-92689 antibody to Alpha Fodrin (green) and counterstained for DNA (blue). The Alpha Fodrin antibody stains numerous axonal and dendritic profiles in these cultures, and this image shows an optical section through a group of neuronal cell bodies. NBP1-92689 clearly reveals the submembrane cytoskeleton. Since Alpha Fodrin is specific for neurons in the CNS, the glial cells in this culture are not recognized by this antibody. This antibody also reveals the submembrane cytoskeleton of the axon.



Immunohistochemistry: Alpha Fodrin Antibody (3D7) [NBP1-92689] - Immunofluorescent image of rat cerebellum stained with NBP1-92689 antibody to alpha-II spectrin, dilution 1:2,000, in green, chicken polyclonal antibody to GFAP, dilution 1:5,000, in red. The spectrin antibody stains the submembrane cytoskeleton on neurons and strongly reveals the cell bodies and dendrites of Purkinje cells, while the GFAP antibody stains the processes of Bergmann glia and astrocytes.





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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP1-92689F	Alpha Fodrin Antibody (3D7) [FITC]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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