

Product datasheet

info@arigobio.com

ARG52218 anti-alpha II Spectrin antibody [3D7]

Package: 50 μl Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [3D7] recognizes alpha II Spectrin

Tested Reactivity Hu, Ms, Rat, Bov

Tested Application IHC-Fr, WB

Host Mouse

Clonality Monoclonal

Clone 3D7

Isotype IgG1

Target Name alpha II Spectrin

Species Human

Immunogen Recombinant contstruct containing the 7th, 8th, 9th repeats of human alpha II spectrin

Conjugation Un-conjugated

Alternate Names Spectrin alpha chain, non-erythrocytic 1; SPTA2; Fodrin alpha chain; EIEE5; NEAS; Alpha-II spectrin;

Spectrin, non-erythroid alpha subunit

Application Instructions

Application table	Application	Dilution
	IHC-Fr	1:500
	WB	1:3000
	Specific for the ~240 k alpha II spectrin protein. * 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 SPTAN1

Gene Full Name spectrin, alpha, non-erythrocytic 1

Background The spectrin family of cytoskeletal proteins is comprised of 2 alpha genes (α 1 and α 2) and five beta genes

(β1-β5). Spectrins have been shown to function as scaffolding proteins in mechanical support of the plasma membrane as well as bind other membrane proteins and lipids (Bennett and Baines 2001). Defects in spectrin genes have been linked to some forms of hereditary spherocytosis, a type of autohemolytic anemia which is characterized by spherical red blood cells that are more prone to lysis (Eber

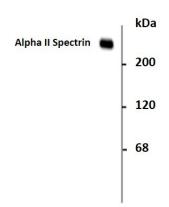
and Lux 2004).

Research Area Controls and Markers antibody; Signaling Transduction antibody

Calculated Mw 285 kDa

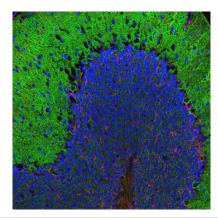
PTM Phosphorylation of Tyr-1176 decreases sensitivity to cleavage by calpain in vitro.

Images



ARG52218 anti-alpha II Spectrin antibody [3D7] WB image

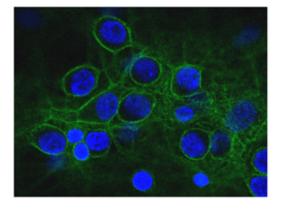
Western blot: Rat hippocampal lysate showing specific immunolabeling of the ~240k alpha II spectrin stained with ARG52218 anti-alpha II Spectrin antibody [3D7].



ARG52218 anti-alpha II Spectrin antibody [3D7] IHC-Fr image

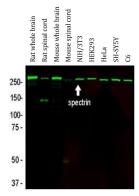
Immunohistochemistry: Frozen section of Rat cerebellum tissue stained with ARG52218 anti-alpha II Spectrin antibody [3D7] (green) at 1:2000 dilution, and costained with anti-GFAP antibody (red) at 1:5000 dilution.

Clone 3D7 stains the submembraneous 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.



ARG52218 anti-alpha II Spectrin antibody [3D7] ICC/IF image

Immunofluorescence: cultured Rat neurons and glia stained with ARG52218 anti-alpha II Spectrin antibody [3D7] showing axonal and dendritic staining of alpha II spectrin (green) revealing the submembraneous cytoskeleton and DNA (blue).



ARG52218 anti-alpha II Spectrin antibody [3D7] WB image

Western blot: Rat whole brain, Rat spinal cord, Mouse whole brain, Mouse spinal cord, NIH/3T3, HEK293, HeLa, SH-SY5Y and C6 cell lysates stained with ARG52218 anti-alpha II Spectrin antibody [3D7] (green).