

Alpha II Spectrin Antibody
Mouse monoclonal antibody
Catalog # AN1218

Specification

Alpha II Spectrin Antibody - Product Information

Application	WB, IF
Primary Accession	O13813
Reactivity	Bovine, Human, Rat
Host	Mouse
Clonality	monoclonal
Isotype	IgG1
Calculated MW	240 KDa

Alpha II Spectrin Antibody - Additional Information

Gene Name **SPTAN1**

Other Names

Spectrin alpha chain, non-erythrocytic 1, Alpha-II spectrin, Fodrin alpha chain, Spectrin, non-erythroid alpha subunit, SPTAN1, NEAS, SPTA2

Target/Specificity

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

Dilution

WB~~ 1:3000

IF~~ 1:500

Format

Affinity purified from tissue culture supernatant.

Antibody Specificity

Specific for the ~240 k alpha II spectrin protein.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Alpha II Spectrin Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

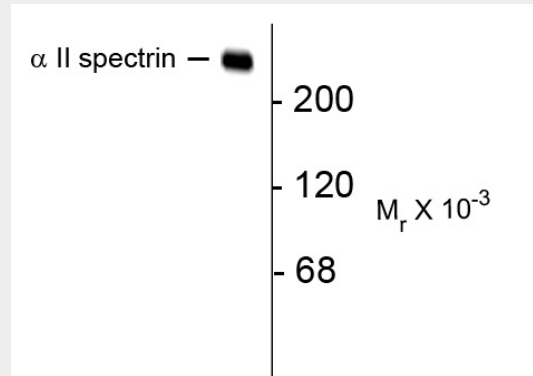
Blue Ice

Alpha II Spectrin Antibody - Protocols

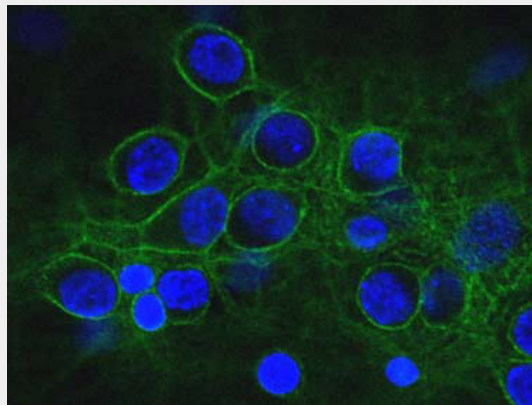
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Alpha II Spectrin Antibody - Images



Western blot of rat hippocampal lysate showing specific immunolabeling of the ~240k alpha II spectrin protein.



Immunofluorescence of cultured rat neurons and glia showing axonal and dendritic staining of alpha II spectrin (green) revealing the submembrane cytoskeleton and DNA (blue).

Alpha II Spectrin Antibody - Background

The spectrin family of cytoskeletal proteins is comprised of 2 alpha genes ($\alpha 1$ and $\alpha 2$) and five beta genes ($\beta 1$ - $\beta 5$). 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 auto-hemolytic anemia which is characterized by spherical red blood cells that are more prone to lysis (Eber and Lux 2004).

Alpha II Spectrin Antibody - References

- Bennett V & Baines AJ.(2001) Spectrin and ankyrin-based pathways: metazoan inventions for integrating cells into tissues. *Physiol Rev.* 81:1353-92.
Eber S & Lux SE. (2004) Hereditary spherocytosis--defects in proteins that connect the membrane

skeleton to the lipid bilayer. Semin Hematol 41:118-41.