

Anti- α II-Spectrin , cleavage-specific Antibody
Catalog # AN1966**Specification**

Anti- α II-Spectrin , cleavage-specific Antibody - Product Information

Primary Accession	Q13813
Reactivity	Bovine
Host	Rabbit
Clonality	Rabbit Polyclonal
Isotype	IgG
Calculated MW	284539

Anti- α II-Spectrin , cleavage-specific Antibody - Additional InformationGene ID **6709****Other Names**

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

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.

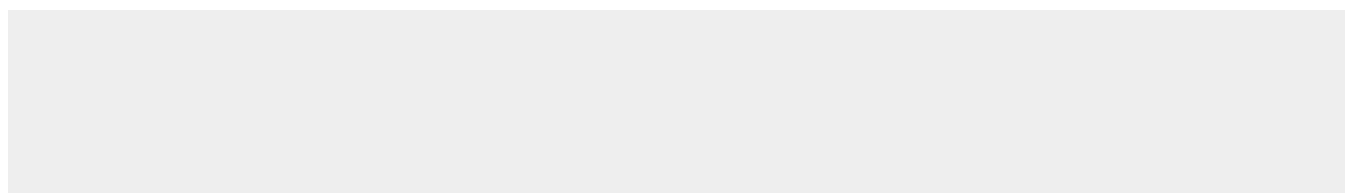
PrecautionsAnti- α II-Spectrin , cleavage-specific Antibody is for research use only and not for use in diagnostic or therapeutic procedures.**Shipping**

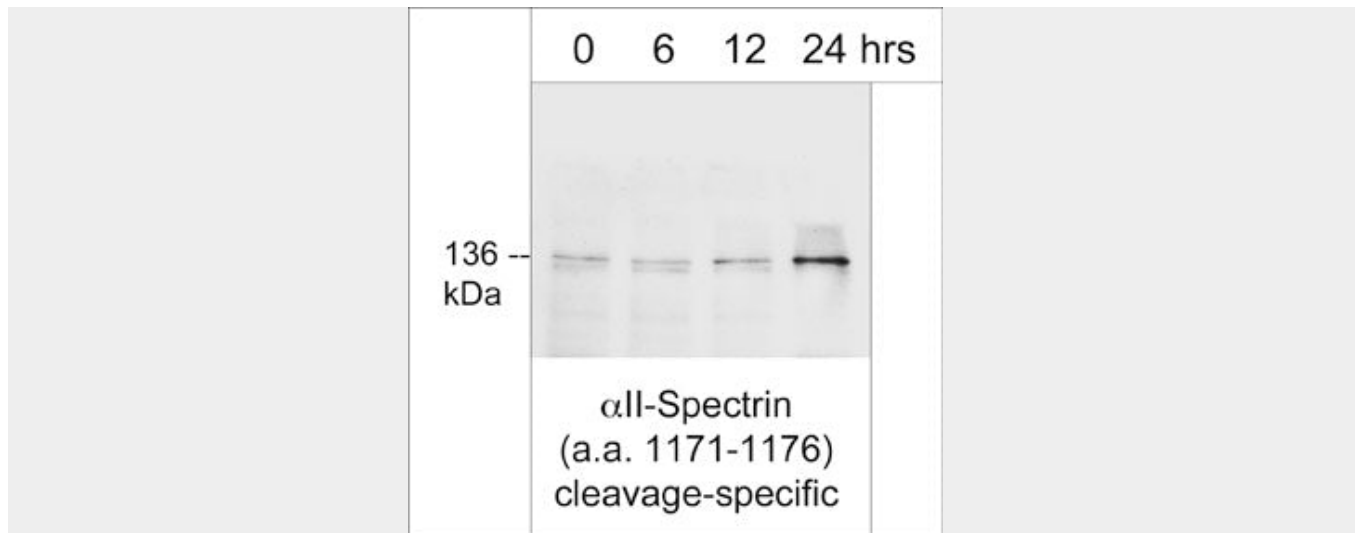
Blue Ice

Anti- α II-Spectrin , cleavage-specific 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](#)

Anti- α II-Spectrin , cleavage-specific Antibody - Images



Western blot analysis of adult mouse diaphragm treated with thapsigargin for 0, 6, 12, or 24 hours to induce cleavage of α II-spectrin from 250 kDa to 136 kDa. The blot was probed with rabbit polyclonal α II-spectrin (a.a. 1171-1176) cleavage-specific antibody at a dilution of 1:1,000 (Image provided by Dr. Leigh Ann Callahan, Department of Internal Medicine, University of Kentucky.)

Anti- α II-Spectrin , cleavage-specific Antibody - Background

Spectrins are central components of the cytoskeleton that form a scaffold below the plasma membrane. Spectrins contain two subunits, α and β , which intertwine to form heterodimers that can self associate into elongated tetramers. α -spectrin I and β -spectrin I form heterodimers in red blood cells, while nonerythroid mammalian cells contain heterodimers of α -spectrin I and II with β -spectrin I to V. The structure of spectrins includes a succession of triple-helical repeats along with various domains, such as SH3 domain, EF hands, PH domains, and binding domains for ankyrin, actin, band 4.1, and calmodulin. α -spectrin II is a widely expressed non-erythroid spectrin that contains an SH3 domain, a calmodulin binding site, and two cleavage sites, one at Tyr-1176 for calpains and one at Asp-1185 for caspase-3. α -spectrin II and β -spectrin II, like many other spectrins, can form heterodimers that can self associate into tetramers, as well as interact with Band 4.1, F-actin, and other proteins near the plasma membrane.