Technical Data Sheet

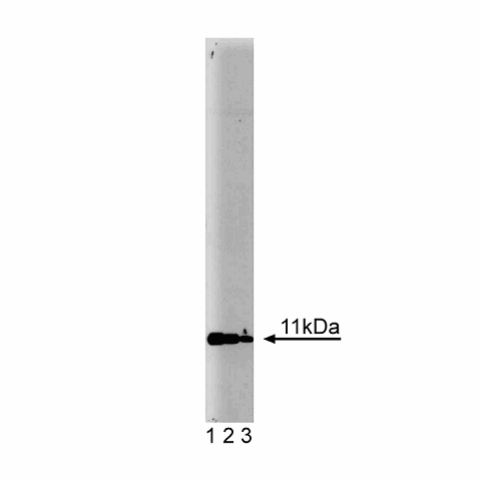
Purified Mouse Anti-Annexin II Light Chain

Product Information

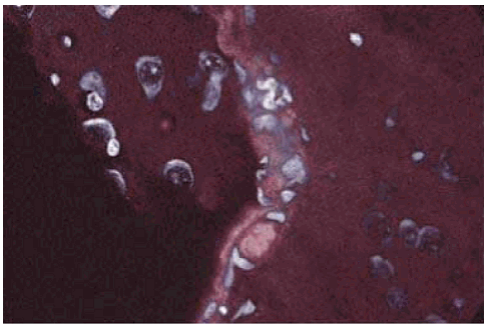
Material Number:	**610070**
Size:	50 µg
Concentration:	250 µg/ml
Clone:	148/Annexin II Light Chain
Immunogen:	Cow Annexin II Light Chain aa. 1-97
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Reactivity Confirmed in Development: Dog, Chicken Lack of Reactivity Confirmed in Development: Rat, Mouse
Target MW:	11 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Annexin II often exists as a heterotetramer complexed with an 11kDa light chain. This p11 subunit is related to the S100 family of calcium-binding proteins but mutations have rendered it unable to bind calcium. The p11 protein binds to the amino terminus of the annexin II monomer, but not to other annexins. It may regulate the function of annexin II, as the tetrameric form seems to have a higher calcium and phospholipid-binding affinity than the monomeric annexin II. In the cell, p11 has been localized to the cytoplasmic face of the plasma membrane where the annexin II tetramer is known to exist.



Western blot analysis of Annexin II Light Chain on human endothelial cell lysate. *Lane 1: 1:5000, lane 2: 1:10000, lane 3: 1: 20000 dilution of anti-Annexin II Lignt Chain.*



Immunofluorescent staining of rabbit cerebrum.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.
Store undiluted at -20°C.

Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunohistochemistry	Tested During Development
Immunoprecipitation	Tested During Development

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml.

BD Biosciences

bdbiosciences.com

United States	Canada	Europe	Japan	Asia Pacific	Latin America/Caribbean
877.232.8995	888.259.0187	32.53.720.550	0120.8555.90	65.6861.0633	55.11.5185.9995

For country-specific contact information, visit **bdbiosciences.com/how_to_order/**

Suggested Companion Products

Catalog Number	Name	Size	Clone
554002	HRP Goat Anti-Mouse Ig	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Ig	0.5 mg	Polyclonal
611450	Human Endothelial Cell Lysate	500 µg	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Choi KS, Fitzpatrick SL, Filipenko NR, et al. Regulation of plasmin-dependent fibrin clot lysis by annexin II heterotetramer. *J Biol Chem.* 2001; 276(27):25212-25221.(Clone-specific: Immunohistochemistry)

Harder T, Kellner R, Parton RG, Gruenberg J. Specific release of membrane-bound annexin II and cortical cytoskeletal elements by sequestration of membrane cholesterol. *Mol Cell Biol.* 1997; 8(3):533-544.(Biology)

Huang XL, Pawliczak R, Cowan MJ. Epidermal growth factor induces p11 gene and protein expression and down-regulates calcium ionophore-induced arachidonic acid release in human epithelial cells. *J Biol Chem.* 2002; 277(41):38431-38440.(Clone-specific: Immunoprecipitation, Western blot)

Kwon M, Caplan JF, Filipenko NR, et al. Identification of annexin II heterotetramer as a plasmin reductase. *J Biol Chem.* 2002; 277(13):10903-10911. (Clone-specific: Flow cytometry)

Regnouf F, Sagot I, Delouche B, et al. "In vitro" phosphorylation of annexin 2 heterotetramer by protein kinase C. Comparative properties of the unphosphorylated and phosphorylated annexin 2 on the aggregation and fusion of chromaffin granule membranes. *J Biol Chem.* 1995; 270(45):27143-27150.(Biology)