Technical Data Sheet

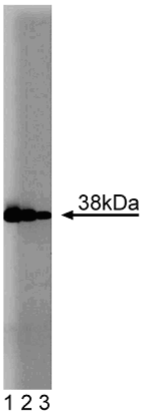
Purified Mouse Anti-Annexin I

Product Information

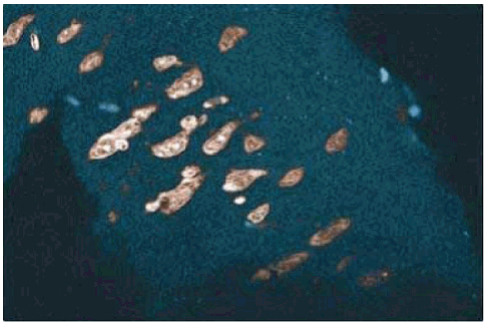
Material Number:	**610067**
Alternate Name:	Lipocortin-1; Calpactin II
Size:	150 µg
Concentration:	250 µg/ml
Clone:	29/Annexin I
Immunogen:	Cow Annexin I aa. 1-346
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Dog
Target MW:	38 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Annexin I, also known as lipocortin-1 or calpactin II, is part of a calcium-dependent phospholipid-binding protein family. Members share a common core domain, but each has a unique N-terminal tail that imparts its functional specificity. It is believed that phosphorlyation of this region in annexin I regulates its functions. Annexin I has been implicated in regulating phospholipid vesicle aggregation, mediating inflammatory response, and inhibiting the activity of phospholipase A2. Additionally, it has been found that the 10 kDa protein S100C influences annexin I's activity by binding to the N-terminal 13 residues of annexin in a manner similar to that of the annexin II/p11 complex.



Western blot analysis of Annexin I on a human endothelial cell lysate. *Lane 1: 1:5000, lane 2: 1:10,000, lane 3: 1:20,000 dilution of the mouse anti-Annexin I antibody.*



Immunohistochemical staining of a rabbit cerebrum section.

Preparation and Storage

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

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Application Notes

Application

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

Recommended Assay Procedure:

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

Suggested Companion Products

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

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

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Graham ME, Gerke V, Burgoyne RD. Modification of annexin II expression in PC12 cell lines does not affect Ca(2+)-dependent exocytosis. *Mol Biol Cell.* 1997; 8(3):431-442.(Biology)

Hansen MD, Ehrlich JS, Nelson WJ. Molecular mechanism for orienting membrane and actin dynamics to nascent cell-cell contacts in epithelial cells. *J Cell Biol.* 2002; 277(47):45371-45376.(Biology)

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)