

## Technical Data Sheet

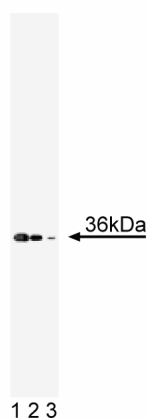
**Purified Mouse Anti-Annexin II****Product Information**

<b>Material Number:</b>	<b>610069</b>
<b>Alternate Name:</b>	Lipocortin II, Calpactin I
<b>Size:</b>	150 µg
<b>Concentration:</b>	250 µg/ml
<b>Clone:</b>	5/Annexin II
<b>Immunogen:</b>	Human Annexin II aa. 123-328
<b>Isotype:</b>	Mouse IgG1
<b>Reactivity:</b>	QC Testing: Human Tested in Development: Chicken, Dog, Mouse, Rat
<b>Target MW:</b>	36 kDa
<b>Storage Buffer:</b>	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

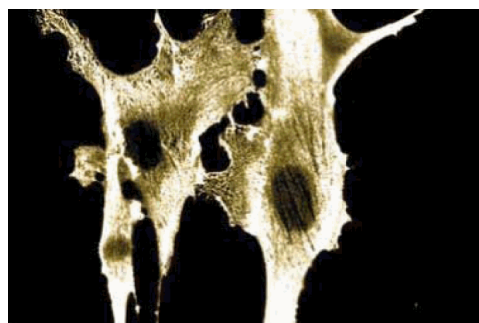
**Description**

Annexin II (p36), originally discovered as a substrate for the src oncogene, is one of the most studied members of the annexin family of calcium-dependent phospholipid-binding proteins. It exists in cells as either a monomer or a heterotetramer complexed with p11, an S100-related protein. In vitro, it has been found that unphosphorylated annexin II is capable of causing aggregation of chromaffin granules, and, upon phosphorylation, induces fusion of the granules' membranes. A similar phenomenon may occur in the final steps of exocytosis after cytoplasmic annexin translocates to the subplasmalemmal region and is phosphorylated by protein kinase C. However, other studies refute annexin II's involvement in exocytosis, and a conclusive role for annexin II in membrane trafficking remains debated.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



**Western blot analysis of Annexin II on an A431 lysate.**  
Lane 1: 1:5000, lane 2: 1:10000, lane 3: 1:20000 dilution of the anti-Annexin II antibody.



**Immunofluorescence staining of human fibroblasts.**

**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
Immunofluorescence	Tested During Development
Immunohistochemistry-formalin (antigen retrieval required)	Tested During Development
Immunoprecipitation	Tested During Development

### Suggested Companion Products

Catalog Number	Name	Size	Clone
611447	A431 Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	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](http://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

Chasserot-Golaz S, Vitale N, Sagot I, et al. Annexin II in exocytosis: catecholamine secretion requires the translocation of p36 to the subplasmalemmal region in chromaffin cells. *J Cell Biol.* 1996; 133(6):1217-1236.(Biology)

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.(Biology: Immunohistochemistry)

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: Immunofluorescence, Immunoprecipitation, Western blot)

Jacovina AT, Zhong F, Khazanov E, Lev E, Deora AB, Hajjar KA. Neuritegenesis and the nerve growth factor-induced differentiation of PC-12 cells requires annexin II-mediated plasmin generation. *J Biol Chem.* 2001; 276(52):49350-49358.(Biology: Immunofluorescence, 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.(Biology: Flow cytometry)