Technical Data Sheet

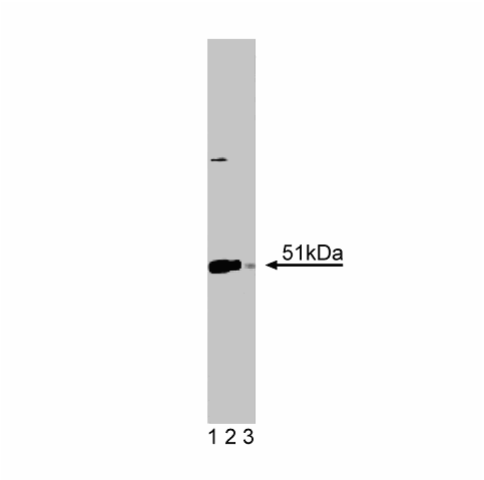
Purified Mouse Anti-Human Annexin VII

Product Information

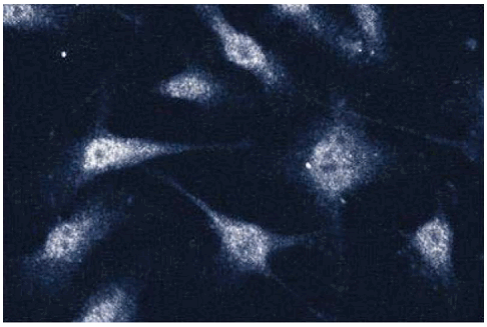
Material Number:	**610669**
Alternate Name:	Synexin
Size:	150 µg
Concentration:	250 µg/ml
Clone:	5/Annexin VII
Immunogen:	Human Annexin VII aa. 34-159
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human
Target MW:	51 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

Annexin VII, also known as synexin, is a member of the Annexin family characterized by Ca2+ dependent phospholipid binding. Annexins have a four-fold internal repeat of about 70 amino acids that contains the Ca2+-binding sites. They also have a regulatory NH2-terminal region of 30-40 amino acids. Annexin VII mRNA has been detected in many tissues and is most abundant in brain, heart, skeletal muscle, and lung. Annexin VII mRNA exhibits a tissue dependent polymorphism due to alternative splicing which results in two different isoforms of 47 kDa and 51 kDa. In vitro, Annexin VII aggregates chromaffin granules and enhances membrane fusion in a Ca2+ and GTP-dependent manner. Although the physiological role of Annexin VII is not completely understood, it is believed to influence and regulate Ca2+ dependent events such as secretion at the plasma membrane.



Western blot analysis of Annexin VII on a human endothelial cell lysate. *Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of the mouse anti-human Annexin VII antibody.*



Immunofluorescence staining of human endothelial cells.

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

Furge LL, Chen K, Cohen S. Annexin VII and annexin XI are tyrosine phosphorylated in peroxovanadate-treated dogs and in platelet-derived growth factor-treated rat vascular smooth muscle cells. *J Biol Chem.* 1999; 274(47):33504-33509.(Biology: Western blot)

Magendzo K, Shirvan A, Cultraro C, Srivastava M, Pollard HB, Burns AL. Alternative splicing of human synexin mRNA in brain, cardiac, and skeletal muscle alters the unique N-terminal domain. *J Biol Chem.* 1991; 266(5):3228-3232.(Biology)

Salzer U, Hinterdorfer P, Hunger U, Borken C, Prohaska R. Ca(++)-dependent vesicle release from erythrocytes involves stomatin-specific lipid rafts, synexin (annexin VII), and sorcin. *Blood.* 2002; 99(7):2569-2577.(Biology: Immunohistochemistry, Western blot)

Selbert S, Fischer P, Pongratz D, Stewart M, Noegel AA. Expression and localization of annexin VII (synexin) in muscle cells. *J Cell Sci.* 1995; 108(Pt 1):85-95. (Biology)

Srivastava M, Bubendorf L, Srikantan V. ANX7, a candidate tumor suppressor gene for prostate cancer. *Proc Natl Acad Sci U S A.* 2001; 98(8):4575-4580. (Biology: Immunohistochemistry)