



---

<b>Catalog Number:</b>	MO22200	<b>Host:</b>	Mouse
<b>Product Type:</b>	Mouse monoclonal IgG	<b>Species Reactivity:</b>	Human and monkey
<b>Immunogen Sequence:</b>	Full length human annexin A5 expressed in and purified from <i>E. coli</i>	<b>Format:</b>	Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM NaN3
<b>Applications:</b>	Immunofluorescent: 1:1,000-2,000 Immunocytochemistry: 1:1,000-2,000 Western Blot: 1:2,000-5,000		

Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.

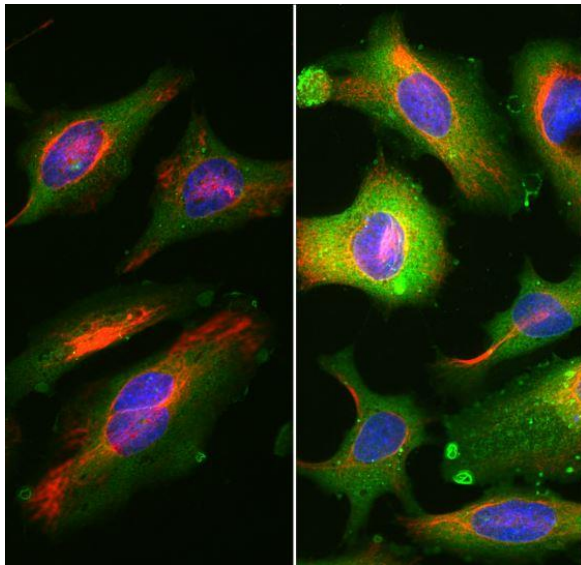
**Storage:** Antibody can also be aliquotted and stored frozen at -20° C in a manual defrost freezer for six months without detectable loss of activity. The antibody is stable at 2° - 8° C for 1 year. Avoid repeated freeze-thaw cycles.

---

### Application Notes

#### Description/Data:

The annexins are a large family of related proteins which share the property of binding to phospholipid containing membranes in a Calcium dependent manner. Different members of the family were discovered by different laboratories and as a result the various members have many alternate names, such as lipocortin, calpactin, calelectrin and very many others. The widely used current nomenclature is now based on a letter to indicate membership in a particular one of several annexin sub-families and a number for individual gene products,

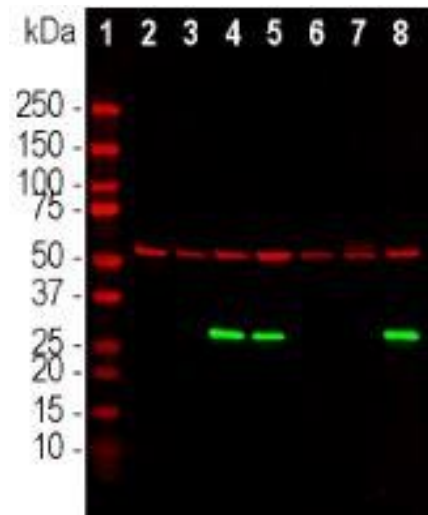


hence the name annexin A5. The annexin family is defined by a compact disc structure formed from 16 closely packed  $\alpha$ -helices which co-ordinate multiple calcium ions with phospholipid containing membranes. This domain is defined by 4 imperfect repeats of a ~77 amino acid sequence, each repeat forming 4  $\alpha$ -helices. Annexin A5 is expressed widely in tissues and has been used as a marker of apoptosis, as apoptotic cells may express binding sites for this protein on their cell surface. The protein binds to phosphatidylserine, a membrane lipid normally not found on the external surface of cells which becomes expressed on the cell surface during apoptosis. As a result fluorescent annexin A5 or annexin A5 antibody can be used to isolate apoptotic cells by fluorescence activated cell sorting.

**FOR RESEARCH USE ONLY**

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RISKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.-V2/08/2012

**Images: Immunofluorescence:** Immunofluorescent analysis of HeLa cells stained with mouse mAb to annexin A5, MO22200, dilution 1:1,000 in green, and costained with chicken pAb to vimentin dilution 1:2,000 in red. The blue is DAPI staining of nuclear DNA. **Western Blot:** Western blot analysis of different cell lines lysates using mouse mAb to annexin A5 dilution 1:2,000 in green: [1] protein standard (red), [2] mouse NIH-3T3, [3] rat C6, [4] human HeLa, [5] human HEK293, [6] canine A72, [7] equine NBL6, and [8] African green monkey COS1 cells.



## FOR RESEARCH USE ONLY

NEUROMICS' REAGENTS ARE FOR IN VITRO AND CERTAIN NON-HUMAN IN VIVO EXPERIMENTAL USE ONLY AND NOT INTENDED FOR USE IN ANY HUMAN CLINICAL INVESTIGATION, DIAGNOSIS, PROGNOSIS, OR TREATMENT. THE ABOVE ANALYSES ARE MERELY TYPICAL GUIDES. THEY ARE NOT TO BE CONSTRUED AS BEING SPECIFICATIONS. ALL OF THE ABOVE INFORMATION IS, TO THE BEST OF OUR KNOWLEDGE, TRUE AND ACCURATE. HOWEVER, SINCE THE CONDITIONS OF USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS OR SUGGESTIONS ARE MADE WITHOUT GUARANTEE, EXPRESS OR IMPLIED, ON OUR PART. WE DISCLAIM ALL LIABILITY IN CONNECTION WITH THE USE OF THE INFORMATION CONTAINED HEREIN OR OTHERWISE, AND ALL SUCH RISKS ARE ASSUMED BY THE USER. WE FURTHER EXPRESSLY DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.-V2/08/2012

[www.neuromics.com](http://www.neuromics.com)

Neuromics Antibodies • 5325 West 74<sup>th</sup> Street, Suite 8 • Edina, MN 55439  
phone 866-350-1500 • fax 612-677-3976 • e-mail: [pshuster@neuromics.com](mailto:pshuster@neuromics.com)