

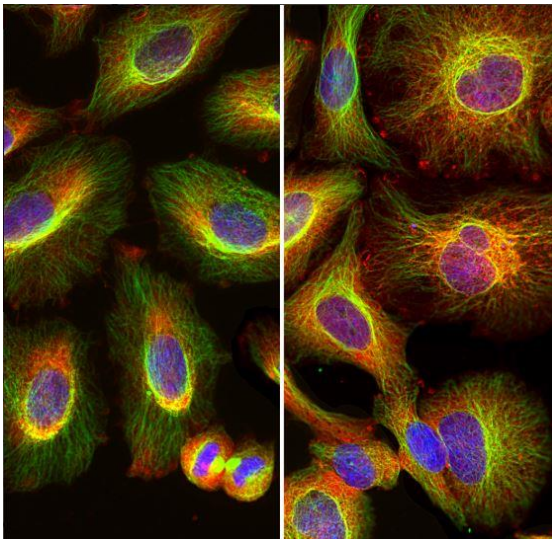


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|----------------------------|--|----------------------------|---|
| Catalog Number: | RA22139 | Host: | Rabbit |
| Product Type: | Rabbit polyclonal IgG | Species Reactivity: | Human, rat, mouse, dog, and horse |
| Immunogen Sequence: | Full length human annexin A5 expressed in and purified from <i>E. coli</i> | Format: | Purified antibody at 1mg/mL in 50% PBS, 50% glycerol plus 5mM Na ₃ |
| Applications: | Immunofluorescent: 1:2,000-5,000 Immunocytochemistry: 1:2,000-5,000 Western Blot: 1:10,000-20,000 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 α -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 α -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.

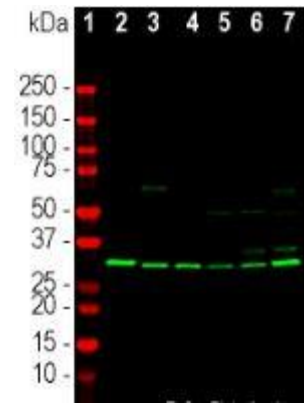
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Images: Immunofluorescence: Immunofluorescent analysis of HeLa cells stained with mouse mAb to annexin A5, MO22200, dilution 1:1,000 in green, and costained with chicken pAb to vimentin dilution 1:2,000 in red. The blue is DAPI staining of nuclear 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.



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