

Annexin A1

Mouse Monoclonal IgG1

Cat. # AM0181

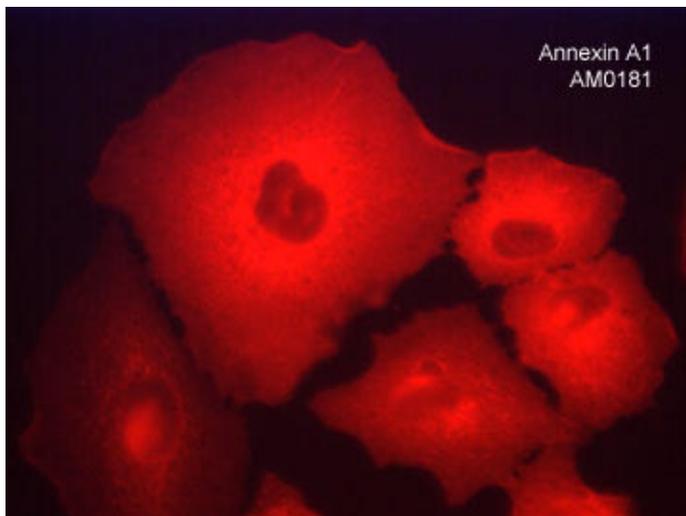
Size 100 µl

Background

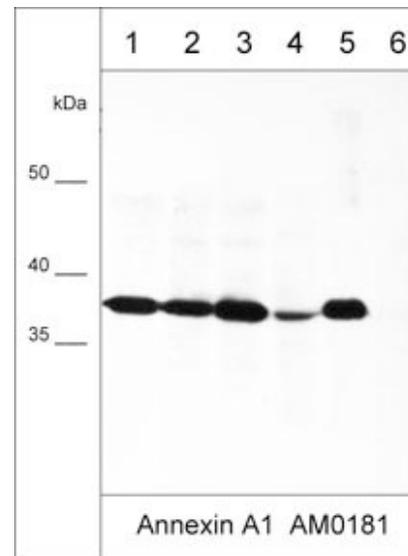
The Annexin family is composed of at least thirteen mammalian genes (Annexin A1-13). These proteins are characterized by a conserved core domain which binds to phospholipids in a Ca²⁺-dependent manner and a unique amino terminal region which may confer binding specificity. Annexins have roles in membrane fusion, endocytosis, secretion, and repair. Annexin A1 binds to cellular membranes in a calcium-dependent manner, promotes membrane fusion and endocytosis, and has been implicated as an anti-inflammatory mediator. Annexin A2 is a cytoskeletal calcium-dependent phospholipid binding protein, which has been shown to be a mediator of corticosteroid activity, a substrate for serine/threonine kinases and growth regulated tyrosine kinases, and may play a role in secretion. Annexin A5 is a PKC inhibitor, directly interacts with VEGFR2 receptor, and binds phosphatidylserine to inhibit blood coagulation. Annexin A6 reverses transformation of A431 cells after overexpression, and this effect may involve annexin A6 targeting of p120 RasGAP to the plasma membrane to inactivate Ras.

Background References

- Feinberg, J.M. et al. (1991) *J Histochem & Cytochem.* 39:955.
Hoque M et al. (2014) *Cell Signal.* 26(6):1213.
Boye TL & Nylandsted J (2016) *Biol Chem.* 397(10):961.



Immunocytochemical labeling of Annexin A1 in paraformaldehyde fixed human A549 cells. The cells were labeled with mouse monoclonal anti-Annexin A1 (clone M018). The antibody was detected using goat anti-mouse Ig DyLight® 594.



Western blot of human A431 cells (lane 1), MDA-MB-231 cells (lane 2), A549 cells (lane 3), LNCaP cells (lane 4), full-length recombinant human annexin A1 (lane 5), and recombinant human annexin A2 (lane 6). The blot was probed with mouse monoclonal anti-Annexin A1 antibody (AM0181) at 1:1000 (lanes 1-6).

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Size 100 µl

Immunogen

Clone M018 was generated from full-length bovine recombinant Annexin A1.

Buffer and Storage

Mouse monoclonal, protein A purified antibody is supplied in 100 µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Applications

WB	1:1000
IP	1:50
ICC	1:100
IHC	1:100

Species Reactivity

Hu, Rt, Ms, B

End user should determine optimal dilution for their particular applications and experiments.

Western blot membranes were incubated with diluted antibody in 5% non-fat milk, Tris buffer, 0.04% Tween20 for 1 hour at room temperature.

Abbreviations: E = ELISA, ICC = immunocytochemistry, IHC = immunohistochemistry, IP = immunoprecipitation, MS = mass spectrometry, WB = western blot
Hu = Human, Ms = Mouse, Rt = Rat, Ck = Chicken, F = Frog, B = Bovine

Specificity

Clone M018 detects a 38 kDa* protein corresponding to the molecular mass of Annexin A1 on SDS-PAGE immunoblots of human A431, A549, and HeLa. The antibody also detects full-length recombinant human Annexin A1, but not Annexin A2 or Annexin A5 recombinant proteins. The antibody works for western blot, immunohistochemistry, immunocytochemistry, and immunoprecipitation.

*All molecular weights (MW) are confirmed by comparison to MW standards and to western blot mobilities of known proteins with similar MW.

"Native" western blot utilizes non-reducing sample buffer (no mercaptoethanol or SDS), normal SDS-PAGE gel electrophoresis, and no methanol in transfer buffers.

Related Products

AM0211 Annexin A1 Mouse Monoclonal

AM0091 Annexin A2 Mouse Monoclonal

AM2981 Annexin A2 (C-terminal region) Mouse Monoclonal

AM0171 Annexin A5 Mouse Monoclonal

AM3301 Annexin A6 Mouse Monoclonal

AK6730 Annexin Family Antibody Sampler Kit

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