

# **Annexin A2 (C-terminal region)**

Mouse Monoclonal

**Cat.** # AM2981 **Size** 100 μl

## **Background**

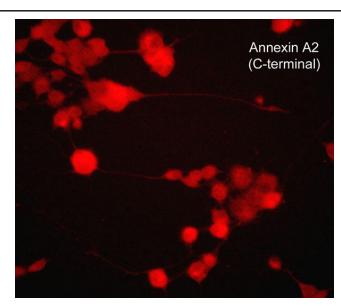
The Annexin family of calcium-binding proteins is composed of al least thirteen mammalian genes (Annexin A1-13). These proteins are characterized by a conserved core domain which binds to phospholipids in a Ca2+-dependent manner and a unique amino terminal region which may confer binding specificity. The Annexin family has been implicated as regulators of such diverse processes as ion-flux, endocytosis and exocytosis, and cellular adhesion. Annexin A2 (calpactin I, chromobindin 8, p36, Lipocortin II, PAP-IV, or Protein I) is a cytoskeletal calcium-dependent phospholipid binding protein, which has been shown to be a mediator of cortocosteroid activity, a substrate for serine/threonine kinases and growth regulated tyrosine kinases, and may play a role in secretion. 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.



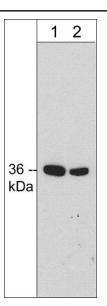
Rev 8/7/2020

### **Background References**

Zokas, L. & Glenney, J.R. (1987) J Cell Biol. 105:2111. Feinberg, J.M. et al. (1991) J Histochem & Cytochem. 39:955. Grewal, T. & Enrich, C. (2006) Bioessays 28(12):1211.



Immunocytochemical labeling of Annexin A2 in NGF-differentiated rat PC12 cells. The cells were fixed in paraformaldehyde and permeabilized using NP-40, then labeled with mouse monoclonal Annexin A2 (C-terminal region). The antibody was detected using goat anti-mouse DyLight® 594.



Western blot of rat PC12 cell lysate. The blot was probed with mouse monoclonal anti-Annexin A2 antibody at 1:250 (lane 1) or 1:1000 (lane 2).

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### Immunogen Uniprot ID: Q07936

Clone (M298) was generated from a recombinant sequence that included amino acids in the C-terminal region of rat Annexin A2.

#### **Product Citations**

Moylan, J. et al. (2014) Redox biology 2:910.

WB: C2C12 myoblast

Gilliam, L.A. et al. (2011) AJP Lung Cell Mol Physiol. 300:L225.

IHC: mouse diaphragm

# **Buffer and Storage**

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

Applications	Species Reactivity
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WB 1:1000 Hu, Rt, Ms, Ck
ELISA 1:2000
IP 1:50
ICC 1:50
IHC 1:50
Isotype: IgG1

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

This antibody detects a 36 kDa\* protein corresponding to the molecular mass of Annexin A2 on SDS-PAGE immunoblots of rat PC12 cells. The antibody has been shown to label Annexin A2 in immunocytochemical analysis of PC12 cells and immunohistochemical analysis of mouse diaphragm.

\*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**

AM3301 Annexin A6 Mouse Monoclonal

AK6730 Annexin Family Antibody Sampler Kit

AM0091 Annexin A2 Mouse Monoclonal

CM2811 Caveolin-1 Mouse Monoclonal

CM2831 Caveolin-1 (Tyr-14), phospho-specific Mouse Monoclonal

PP1491 PLCγ1 (Tyr-775), phospho-specific Rabbit Polyclonal



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