Human/Mouse/Rat Annexin A1 Antibody

Monoclonal Mouse IgG_1 Clone # 686122

Catalog Number: MAB37701

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human Annexin A1 in direct ELISAs and human, mouse, and rat Annexin A1 in Western blots. In direct ELISAs, approximately 25%-50% cross-reactivity with recombinant human (rh) Annexin A2 is observed and no cross-reactivity with rhAnnexin A3, A6, or A11 is observed. In Western blots, no cross-reactivity with rhAnnexin A6 is observed.
Source	Monoclonal Mouse IgG_1 Clone # 686122
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Annexin A1 Met1-Asn346 Accession # P04083
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

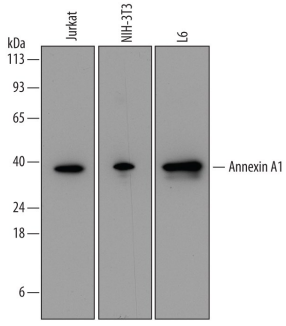
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	See Below
Simple Western	1 µg/mL	See Below
Knockout Validated	Annexin A1 is specifically detected in NIH-3T3 mouse embryonic fibroblast parental cell line but is not detectable in Annexin A1 knockout NIH-3T3 cell line.	

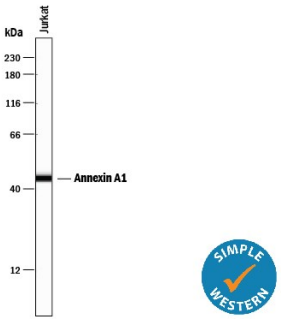
DATA

Western Blot



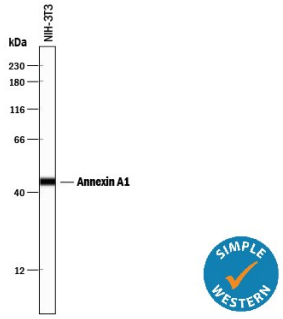
Detection of Human, Mouse, and Rat Annexin A1 by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line, NIH-3T3 mouse embryonic fibroblast cell line, and L6 rat myoblast cell line. PVDF membrane was probed with 0.1 µg/mL of Mouse Anti-Human/Mouse Annexin A1 Monoclonal Antibody (Catalog # MAB37701) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Annexin A1 at approximately 39 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

Simple Western



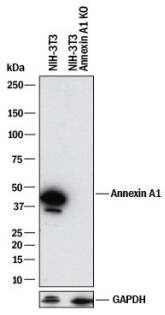
Detection of Human Annexin A1 by Simple Western™. Simple Western lane view shows lysates of Jurkat human acute T cell leukemia cell line, loaded at 0.2 mg/mL. A specific band was detected for Annexin A1 at approximately 45 kDa (as indicated) using 1 µg/mL of Mouse Anti-Human/Mouse/Rat Annexin A1 Monoclonal Antibody (Catalog # MAB37701). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Simple Western



Detection of Mouse Annexin A1 by Simple Western™. Simple Western lane view shows lysates of NIH-3T3 mouse embryonic fibroblast cell line, loaded at 0.2 mg/mL. A specific band was detected for Annexin A1 at approximately 45 kDa (as indicated) using 1 µg/mL of Mouse Anti-Human/Mouse/Rat Annexin A1 Monoclonal Antibody (Catalog # MAB37701). This experiment was conducted under reducing conditions and using the 12-230 kDa separation system.

Knockout Validated



Western Blot Shows Mouse Annexin A1 Specificity by Using Knockout Cell Line. Western blot shows lysates of NIH-3T3 mouse embryonic fibroblast parental cell line and Annexin A1 knockout NIH-3T3 cell line (KO). PVDF membrane was probed with 0.1 µg/mL of Mouse Anti-Human/Mouse/Rat Annexin A1 Monoclonal Antibody (Catalog # MAB37701) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Annexin A1 at approximately 38 kDa (as indicated) in the parental NIH-3T3 cell line, but is not detectable in knockout NIH-3T3 cell line. GAPDH (Catalog # MAB5718) is shown as a loading control. This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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Human/Mouse/Rat Annexin A1 Antibody

Monoclonal Mouse IgG_1 Clone # 686122

Catalog Number: MAB37701

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The Annexins are a family of Calcium-dependent phospholipid-binding proteins that are preferentially located on the cytosolic face of the plasma membrane. The Annexins have a molecular weight of approximately 35 to 40 kDa and consist of a unique amino terminal domain followed by a homologous C-terminal core domain containing the calcium-dependent phospholipid-binding sites. The C-terminal domain is comprised of four 60-70 amino acid repeats, known as annexin repeats or an endonexin fold (Annexin A6 contains 8 annexin repeats). The four annexin repeats form a highly α-helical, tightly packed disc known as the annexin domain, which binds to phospholipids in the membrane in a calcium-dependent manner. Members of the annexin family play a role in cytoskeletal interactions, phospholipase inhibition, regulation of cellular growth, and intracellular signal transduction pathways. Annexin A1 (ANXA1), also known as annexin I, lipocortin I, and calpactin II, is an ~ 40 kDa protein with phospholipase A2 inhibitory activity. Since phospholipase A2 is required for the biosynthesis of the potent mediators of inflammation, prostaglandins and leukotrienes, Annexin A1 may have anti-inflammatory activity. Human Annexin A1 shares 88 and 89% amino acid sequence identity with mouse and rat Annexin A1, respectively.

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