Human/Mouse/Rat Annexin A11 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF3927

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse, and rat Annexin A11 in Western blots. In Western blots, this antibody shows no cross-reactivity with recombinant human Annexin A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, or A13.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Annexin A11 Met1-Asp505 Accession # P50995
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.

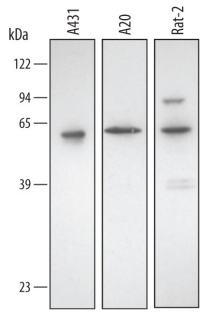
APPLICATIONS

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	1 µg/mL	See Below
Simple Western	50 µg/mL	Exosome Standards (LNCaP) (Catalog # NBP3-11687), Exosome Standards (PC-3) (Catalog # NBP2-49856) and A431 human epithelial carcinoma cell line

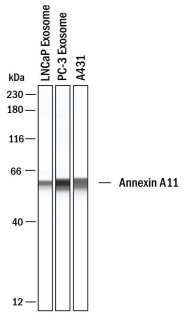
DATA

Western Blot



Detection of Human/Mouse/Rat Annexin A11 by Western Blot. Western blot shows lysates of A431 human epithelial carcinoma cell line, A20 mouse B cell lymphoma cell line, and Rat-2 rat embryonic fibroblast cell line. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat Annexin A11 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3927) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # Catalog # HAF017). A specific band was detected for Annexin A11 at approximately 56 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

Simple Western



Detection of Human Annexin A11 by Simple Western™. Simple Western shows lysates of Exosome Standards (LNCaP) (Catalog # NBP3-11687), Exosome Standards (PC-3) (Catalog # NBP2-49856) and A431 human epithelial carcinoma cell line, loaded at 0.5 mg/ml. A specific band was detected for Annexin A11 at approximately 59 kDa (as indicated) using 50 µg/mL of Goat Anti-Human/Mouse/Rat Annexin A11 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3927). This experiment was conducted under reducing conditions and using the 12-230kDa separation system.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.
Shipping	Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.
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.

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BACKGROUND

Annexin A11 (ANXA11), also known as Annexin XI, 56K Autoantigen and Calcyclin-associated annexin 50 (CAP50), is a 54.4 kDa (predicted) member of the Annexin protein family. The Annexins are a family of Calcium-dependent phospholipid-binding proteins that are preferentially located on the cytosolic face of the plasma membrane. The Annexin's have a molecular weight of approximately 35-40 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 (aa) 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 A11 was identified as a 56 kDa antigen recognized by sera from patients with autoimmune diseases such as rheumatoid arthritis, systemic lupus erythematosus, or Sjogren's syndrome. Human Annexin A11 shares 93% identity with mouse and rat Annexin A11.

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