Human/Mouse/Rat Phospho-Annexin A2 (Y24) Antibody

Monoclonal Mouse IgG_1 Clone # 647406

Catalog Number: MAB6406

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse and rat Annexin A2 when phosphorylated at Y24.
Source	Monoclonal Mouse IgG_1 Clone # 647406
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Phosphopeptide containing the human Annexin A2 Y24 site
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

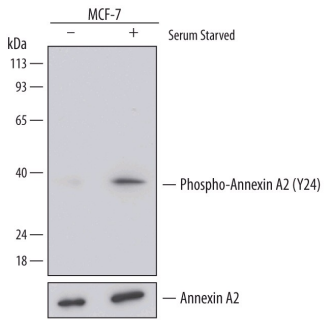
APPLICATIONS

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

DATA

Western Blot



Detection of Human Phospho-Annexin A2 (Y24) by Western Blot. Western blot shows lysates of MCF-7 human breast cancer cell line, serum starved (+) or untreated (-). PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human/Mouse/Rat Phospho-Annexin A2 (Y24) Monoclonal Antibody (Catalog # MAB6406) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for Phospho-Annexin A2 (Y24) at approximately 40 kDa (as indicated). For additional reference, the membrane was stripped and reprobed with 0.05 µg/mL Mouse Anti-Human/Mouse/Rat Annexin A2 Monoclonal Antibody (*lower panel*, Catalog # MAB3928). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

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.
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

Annexin A2 (ANXA2), also known as Annexin II and Lipocortin II (LPC2), is a 38.6 kDa member of the Annexin family of calcium-dependent phospholipid-binding proteins that are preferentially located on the cytosolic face of the plasma membrane. Phosphorylation of Annexin A2 at Tyr24 regulates its involvement in endosomal trafficking and actin cytoskeleton rearrangement. The Annexins 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) annexin repeats. Annexin A2 also functions as an autocrine factor to enhance osteoclast formation and bone resorption and is a major cellular substrate of the tyrosine kinase Src. Human Annexin A2 shares 97% identity with mouse and rat Annexin A2, and all three are identical in the region surrounding Tyr24.