

Rabbit Annexin I Polyclonal Antibody | anti-ANXA1 antibody

Annexin I Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321831	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Annexin I; Polyclonal Antibody; Annexin I Antibody; Annexin 1; Annexin A1; Annexin I (lipocortin I); Annexin-1; AnnexinA1; AnnexinI; ANX 1; ANX A1; ANX1; ANXA 1; ANXA1; ANXA1 protein; ANXA1_HUMAN; Calpactin 2; Calpactin II; Calpactin-2; CalpactinII; Chromobindin 9; Chromobindin-9; Chromobindin9; HGNC:533; Lipocortin 1; Lipocortin I; Lipocortin1; LipocortinI; LPC 1; LPC1; p35; Phospholipase A2 inhibitory protein; anti-ANXA1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Annexin I antibody detects endogenous levels of total Annexin I
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	346
Applicable Applications for anti-ANXA1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Annexin I
Subcellular Location	Nucleus. Cytoplasm. Cell Projection > Cilium. Basolateral Cell Membrane. Found in the cilium, nucleus and basolateral Cell Membrane of ciliated cells in the tracheal endothelium (By similarity). Found in the cytoplasm of type II pneumocytes and alveolar macrophages.
Tissue Specificity	Detected in resting neutrophils (PubMed:10772777). Detected in peripheral blood T-cells (PubMed:17008549). Detected in extracellular vesicles in blood serum from patients with inflammatory bowel disease, but not in serum from healthy donors (PubMed:25664854). Detected in placenta (at protein level) (PubMed:2532504). Detected in liver.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit
Similarity	Pig (81%), Bovine (88%), Horse (94%), Sheep (93%), Rabbit (94%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemisry)
IHC analysis of Annexin I expression in COLO.



WB (Western Blot)
Western blot analysis of Annexin I Antibody expression in mouse liver tissue lysates.The lane on the right is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of Annexin I expression in Mouse brain lysate

ADDITIONAL INFORMATION

Related Product Information for anti-ANXA1 antibody

Description: Calcium/phospholipid-binding protein which promotes membrane fusion and is involved in exocytosis. This protein regulates phospholipase A2 activity. It seems to bind from two to four calcium ions with high affinity.

Function: Plays important roles in the innate immune response as effector of glucocorticoid-mediated responses and regulator of the inflammatory process. Has anti-inflammatory activity (PubMed:8425544). Plays a role in glucocorticoid-mediated down-regulation of the early phase of the inflammatory response (By similarity). Promotes resolution of inflammation and wound healing (PubMed:25664854). Functions at least in part by activating the formyl peptide receptors and downstream signaling cascades (PubMed:15187149, PubMed:25664854). Promotes chemotaxis of granulocytes and monocytes via activation of the formyl peptide receptors (PubMed:15187149). Contributes to the adaptive immune response by enhancing signaling cascades that are triggered by T-cell activation, regulates differentiation and proliferation of activated T-cells (PubMed:17008549). Promotes the differentiation of T-cells into Th1 cells and negatively regulates differentiation into Th2 cells (PubMed:17008549). Has no effect on unstimulated T cells (PubMed:17008549). Promotes rearrangement of the actin cytoskeleton, cell polarization and cell migration (PubMed:15187149). Negatively regulates hormone exocytosis via activation of the formyl peptide receptors and reorganization of the actin cytoskeleton (PubMed:19625660). Has high affinity for Ca2+ and can bind up to eight Ca2+ ions (By similarity). Displays Ca2+-dependent binding to phospholipid membranes (PubMed:2532504, PubMed:8557678). Plays a role in the formation of phagocytic cups and phagosomes. Plays a role in phagocytosis by mediating the Ca2+-dependent interaction between phagosomes and the actin cytoskeleton (By similarity).

Subunit Structure: Homodimer; non-covalently linked (By similarity). Homodimer; linked by transglutamylation (PubMed:2532504). Homodimers linked by transglutamylation are observed in placenta, but not in other tissues (PubMed:2532504). Interacts with S100A11 (PubMed:8557678, PubMed:10673436). Heterotetramer, formed by two molecules each of S100A11 and ANXA1 (PubMed:10673436). Interacts with DYSF (By similarity). Interacts with EGFR (By similarity).

Post-translational Modifications: Phosphorylated by protein kinase C, EGFR and TRPM7 (PubMed:2457390, PubMed:15485879). Phosphorylated in response to EGF treatment (PubMed:2532504). Sumoylated.

Similarity: The full-length protein can bind eight Ca2+ ions via the annexin repeats. Calcium binding causes a major conformation change that modifies dimer contacts and leads to surface exposure of the N-terminal phosphorylation sites; in the absence of Ca2+, these sites are buried in the interior of the protein core. The N-terminal region becomes disordered in response to calcium-binding.The N-terminal 26 amino acids are sufficient for its extracellular functions in the regulation of inflammation and wound healing (PubMed:25664854). Acylated peptides that contain the first 26 amino acids of the mature protein can activate signaling via the formyl peptide receptors (PubMed:15187149, PubMed:25664854). Belongs to the annexin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502101
NCBI GeneID	301
NCBI Accession #	NP_000691.1
NCBI GenBank Nucleotide #	NM_000700.2

UniProt Accession #	P04083; B5BU38
Molecular Weight	Observed: 38 kDa Predicted: 39 kDa
NCBI Official Full Name	annexin A1
NCBI Official Synonym Full Names	annexin A1
NCBI Official Symbol	ANXA1
NCBI Official Synonym Symbols	ANX1; LPC1
NCBI Protein Information	annexin A1
UniProt Protein Name	Annexin A1
UniProt Gene Name	ANXA1
UniProt Synonym Gene Names	ANX1; LPC1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/annexin-i-antibody-immunohistochemistry-western-blot-elisa/321831>