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ANXA1 Ab

Cat.#: DF6254 Size: 100ul,200ul	Concn.: 1mg/ml Source: Rabbit	Mol.Wt.: 39kDa Clonality: Polyclonal
Application:	WB 1:500-1:2000	
Reactivity:	Human,Mouse,Rat	
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).	
Specificity:	ANXA1 Ab detects endogenous levels of total ANXA1.	
Immunogen:	A synthesized peptide derived from human ANXA1.	
Uniprot:	P04083	
Description:	The annexin superfamily consists of 13 calcium or calcium and phospholipid binding proteins with high biological and structural homology (1). Annexin-1 (ANXA1) is the first characterized member of the annexin family of proteins and is able to bind to cellular membranes in a calcium- dependent manner, promoting membrane fusion and endocytosis (2-4). Annexin A1 has anti-inflammatory properties and inhibits phospholipase A2 activity (5,6). Annexin A1 can accumulate on internalized vesicles after EGF-stimulated endocytosis and may be required for a late stage in inward vesiculation (7). Phosphorylation by PKC, EGFR, and Chak1 results in inhibition of annexin A1 function (8-10). Annexin A1 has also been identified as one of the 'eat- me' signals on apoptotic cells that are to be recognized and ingested by phagocytes (11). Annexin A1, as an endogenous anti-inflammatory mediator, has roles in many diverse cellular functions, such as membrane aggregation, inflammation, phagocytosis, proliferation, apoptosis, and tumorigenesis and cancer development (12-14).	
Subcellular Location:	Nucleus. Cytoplasm. Cell projec membrane. Found in the cilium membrane of ciliated cells in th similarity). Found in the cytopla and alveolar macrophages.	, nucleus and basolateral cell e tracheal endothelium (By
Tissue Specificity:	Detected in resting neutrophils Detected in peripheral blood T Detected in extracellular vesicle patients with inflammatory bow from healthy donors (PubMed:2 placenta (at protein level) (Publ	cells (PubMed:17008549). es in blood serum from rel disease, but not in serum 5664854). Detected in

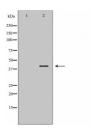


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liver.

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.
Storage Condition and	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM
Buffer:	NaCl, 0.02% sodium azide and 50% glycerol.Store at -20

°C.Stable for 12 months from date of receipt.



Western blot analysis of Hela using ANXA1 Ab. The lane on the left was treated with the antigen-specific peptide.

IMPORTANT: For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween@20 at 4°C with gentle shaking, overnight.

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