# ANXA1 (Phospho-Tyr21) Ab

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| Cat.#: AF8240 | Concn.: 1mg/ml | Mol.Wt.: 37kd |
| Size: 50ul,100ul,200ul | Source: Rabbit | Clonality: Polyclonal |

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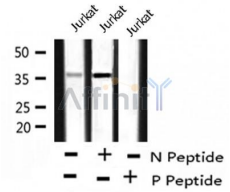
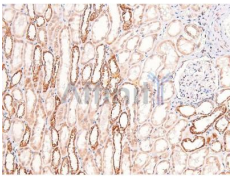
| Application: | WB 1:1000-3000, IHC 1:50-1:200 |
| Reactivity: | Human |
| Purification: | The Ab is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns. |
| Specificity: | ANXA1 (Phospho-Tyr21) Ab detects endogenous levels of ANXA1 only when phosphorylated at Tyr21 |
| Immunogen: | A synthesized peptide derived from human ANXA1 (Phospho-Tyr21) |
| Uniprot: | P04083 |
| 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. |
| 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 Buffer: | Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 |

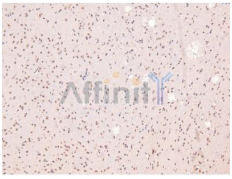
°C.Stable for 12 months from date of receipt



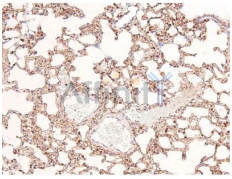

Western blot analysis ANXA1 (Phospho-Tyr21) using Jurkat whole cell lysates



AF8240 at 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF8240 at 1/200 staining Mouse brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.



AF8240 at 1/200 staining Rat lung tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the Ab for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit Ab was used as the secondary.

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