ALPHA DIAGNOSTIC INTERNATIONAL

Product Specification Sheet

Anti-Annexin A1 Antibody

Cat # ANX111-A	Rabbit Anti-Mouse Annexin A1 (Anxa1) IgG, Affinity Pure	**SIZE**: 100 ug
Cat # ANX111-P	Mouse Annexin A1 (Anxa1) Control/Blocking peptide	**SIZE**: 250 ug
Cat # ANX111-S	Rabbit Anti-Mouse Annexin A1 (Anxa1) antiserum	**SIZE:** 100 ul

Plays important roles in the innate immune response as effector of glucocorticoid-mediated responses and regulator of the inflammatory process. Has anti-inflammatory activity. Plays a role in glucocorticoid-mediated down-regulation of the early phase of the inflammatory response. Promotes resolution of inflammation and wound healing. Functions at least in part by activating the formyl peptide receptors and downstream signaling cascades. Promotes chemotaxis of granulocytes and monocytes via activation of the formyl peptide receptors. 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. Promotes the differentiation of T-cells into Th1 cells and negatively regulates differentiation into Th2 cells. Has no effect on unstimulated T cells. Promotes rearrangement of the actin cytoskeleton, cell polarization and cell migration. Negatively regulates hormone exocytosis via activation of the formyl peptide receptors and reorganization of the actin cytoskeleton. Has high affinity for Ca2+ and can bind up to eight Ca2+ ions. Displays Ca2+-dependent binding to phospholipid membranes. 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

Source of Antigen and Antibodies

Antigen	Mix of 3 peptides between 18-23 amino acids of Mouse Annexin A1 (Uniprot: P10107) conjugated to KLH
Ab Host/type	Rabbit, polyclonal Aff pure IgG (**cat # ANX111-A**) purified over the antigen column
Secondary-antibody	Cat # 20320, goat anti-rabbit IgG-HRP (AP, biotin, FITC conjugates also available
Isotype control	# 20009-1, Rabbit (non-immune) IgG, purified, suitable for ELISA, Western, IHC. IP, CHIP, and Flow cytometry as a negative control.

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG
☐ 100 ul Solution; Concentration: _____
☐ Lyophilized powder

Supplied in **Buffer**: PBS+0.1% BSA
Reconstitute powder in PBS at 1mg/ml

Control/blocking peptide
☐ 250 ug/250 ul ☐ Solution ☐ Lyophilized powder

Reconstitute powder in PBS at 1 mg/ml.

Storage

Short-term: unopened, undiluted liquid vials at 20°C and powder at 4°C or -20°C.
Long-term: at –20°C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at –20°C or below.

Shipping: 4°C for solutions and room temp for powder

Recommended Usage

Western Blotting: 0.5-5 ug/ml using affinity pure. 1:1k-1:5k for antiserum

ELISA: Assay dependent concentration. Typically 0.1-5 ug/ml if used as capture or 0.05-0.25 ug/ml if used as detection.

Histochemistry & Immunofluorescence: 5-10 ug/ml

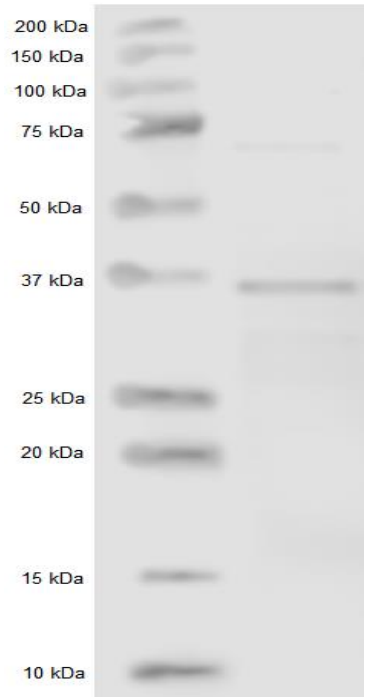
Specificity & Cross-reactivity

Mix of 3 peptides which vary in conservation across species. All 3 peptides are >90% in Mouse, Rat, and Human. Also shows 88-95% conservation across Monkey, Horse, Pig, Xenopus Laevis, Bovine, Sheep, Goat, Cat, and Dog. Reactivity has not been assessed in other species. Control/blocking peptide can be used for antibody blocking experiments (use 5-10 ug control peptide per 1 ug of aff pure IgG or 1 ul antiserum) to confirm antibody specificity.

**This product is for In vitro research use only.*

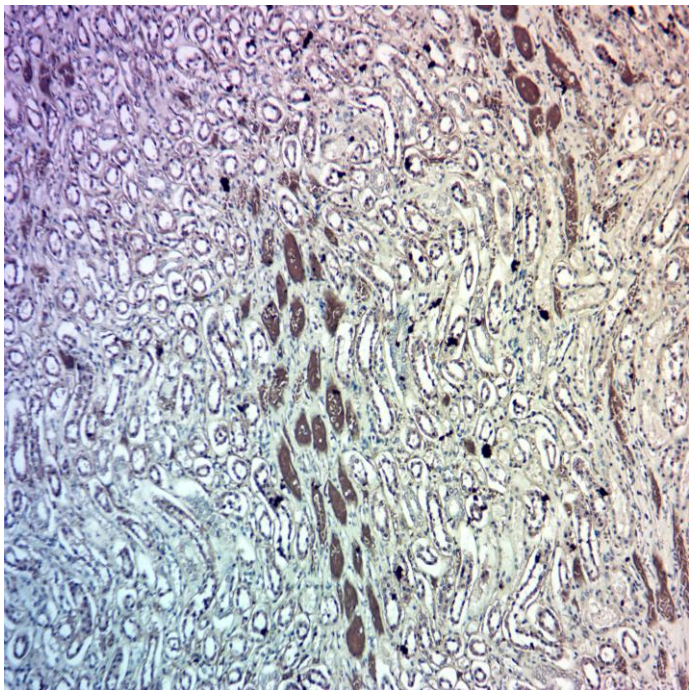
Related materials available from ADI

Catalog#	Description
ANX211-P	Mouse Annexin A2 (Anxa2) Control/Blocking peptide #1
ANX211-S	Rabbit anti-Mouse Annexin A2 (Anxa2) antiserum
ANX311-A	Rabbit anti-Mouse Annexin A3 (Anxa3) IgG. Aff. Pure
ANX311-P	Mouse Annexin A3 (Anxa3) Control/Blocking peptide
ANX-200-A2A	Human Anti-Annexin A2 IgG ELISA Kit, Quantitative, 96 tests
ANX111-A	Rabbit anti-Mouse Annexin A1 (Anxa1) IgG. Affinity Pure
ANX111-P	Mouse Annexin A1 (Anxa1) Control/Blocking peptide #1
ANX111-S	Rabbit anti-Mouse Annexin A1 (Anxa1) antiserum
ANX211-A	Rabbit anti-Mouse Annexin A2 (Anxa2) IgG. Aff. Pure
ANX311-S	Rabbit anti-Mouse Annexin A3 (Anxa3) antiserum
ANX-215-A2A	Mouse Anti-Annexin A2 IgM ELISA Kit, Quantitative, 96 tests
9580	Human Annexin A1 (ANXA1) ELISA Kit, 96 tests, Quantitative
9590	Human Annexin A3 (ANXA3) ELISA Kit, 96 tests, Quantitative
9585	Human Annexin A2 (ANXA2) ELISA Kit, 96 tests, Quantitative



25 ug of HeLa (ADI cat# HELA-100) and 3T3 (ADI cat# 3T3L1-100) were boiled for 5 minutes at 95ºC then loaded onto an Any Kd gel (Biorad). Gels were run for ~40 minutes at 200V and transferred to a nitrocellulose membrane. Ladders were annotated with ADI antigen-antibody pen and blocked for 1 hour with 5% BSA. ANX111-A was incubated at 1 ug/ml overnight at 4ºC. Blot was washed with TBS-T 3 times for 5 minutes. Goat anti-rabbit IgG HRP (ADI cat#20320) was added at 1:2500 dilution for 1 hour at room temperature. Blot was washed 3 times with TBS-T for 5 minutes. ADI Femto ECL substrate (ADI cat#80210) was added for 5 minutes and the blot was imaged. Band is observed at ~37 kDa

Western Blot Positive controls: HeLa (Human), 3T3-L1 (Mouse)



5 um FFPE Human Kidney Tissue: Antigen retrieval was performed for 10 minutes at 95ºC in a microwave with 10 mM sodium citrate pH 6 buffer (ADI cat# ARS6-50). Slides were blocked with 2.5% Normal Goat serum. ANX111-A was incubated at 10 ug/ml overnight at 4ºC. Slides were washed in PSBT then incubated with 3% Hydrogen Peroxide at room temperature for 10 minutes. Slides were washed with PBST then Goat anti rabbit IgG-HRP Polymer reagent was added for 30 minutes at room temperature. Slides were incubated with DAB for 10 minutes then counter stained with Mayer's Hematoxylin for 1 minute.

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