

Product datasheet

Anti-Annexin A1/ANXA1 antibody ab46686

KO **VALIDATED**

[2 Images](#)

Overview

Product name	Anti-Annexin A1/ANXA1 antibody
Description	Rabbit polyclonal to Annexin A1/ANXA1
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: a wide range of other species 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human Annexin A1. Read Abcam's proprietary immunogen policy (Peptide available as ab47659 .)
Positive control	ab46686 gave a positive result in THP1 Whole Cell Lysate.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab46686** in the following tested applications.

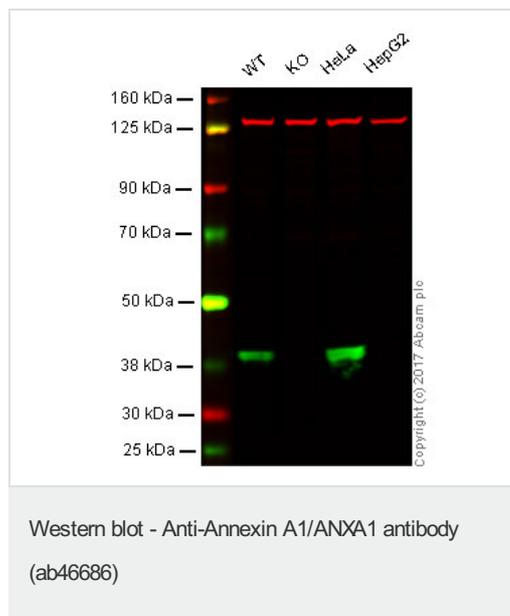
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/250. Detects a band of approximately 39 kDa (predicted molecular weight: 39 kDa).

Target

Function	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.
Sequence similarities	Belongs to the annexin family. Contains 4 annexin repeats.
Domain	A pair of annexin repeats may form one binding site for calcium and phospholipid.
Post-translational modifications	Phosphorylated by protein kinase C, epidermal growth factor receptor/kinase and TRPM7. Phosphorylation results in loss of the inhibitory activity.
Cellular localization	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.

Images



Lane 1: Wild type HAP1 whole cell lysate (20 µg)

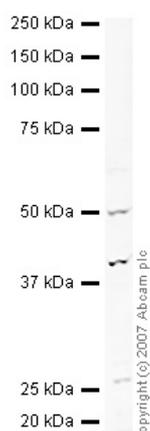
Lane 2: Annexin A1 knockout HAP1 whole cell lysate (20 µg)

Lane 3: HeLa whole cell lysate (20 µg)

Lane 4: HepG2 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab46686 observed at 38 kDa. Red - loading control, ab18058, observed at 130 kDa.

ab46686 was shown to specifically react with Annexin A1 when Annexin A1 knockout samples were used. Wild-type and Annexin A1 knockout samples were subjected to SDS-PAGE. ab46686 and ab18058 (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1/250 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ab216776 secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Annexin A1/ANXA1 antibody (ab46686)

Anti-Annexin A1/ANXA1 antibody (ab46686) at 1/250 dilution + THP1 whole cell lysate (ab7913) at 10 µg

Secondary

IRDye 680 Conjugated Goat Anti-Rabbit IgG (H+L) at 1/10000 dilution

Performed under reducing conditions.

Predicted band size: 39 kDa

Observed band size: 39 kDa

Additional bands at: 26 kDa, 50 kDa. We are unsure as to the identity of these extra bands.

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