

Product datasheet

Anti-Annexin-2/ANXA2 antibody [EPR18157-104] - BSA and Azide free ab227486

Recombinant RabMAb

3 Images

Overview

Product name	Anti-Annexin-2/ANXA2 antibody [EPR18157-104] - BSA and Azide free
Description	Rabbit monoclonal [EPR18157-104] to Annexin-2/ANXA2 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, IHC-P, WB, IP
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment within Mouse Annexin-2/ANXA2 aa 1-300. The exact sequence is proprietary. Database link: P07356
Positive control	IHC-P: Mouse liver tissue.
General notes	<p>ab227486 is the carrier-free version of ab189473 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>Ab227486 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. <i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>This product was previously labelled as Annexin A2</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.</p>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR18157-104
Isotype	IgG

Applications

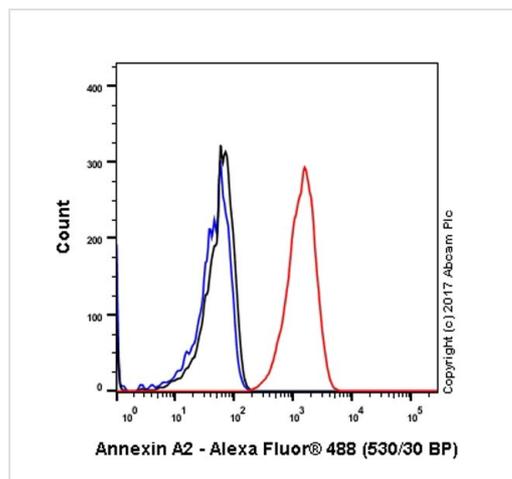
Our [Abpromise guarantee](#) covers the use of **ab227486** in the following tested applications.

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

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. IHC is not recommended in human or rat due to nonspecific or negative staining.
WB		Use at an assay dependent concentration. Detects a band of approximately 36, 34 kDa (predicted molecular weight: 38 kDa).
IP		Use at an assay dependent concentration.

Target

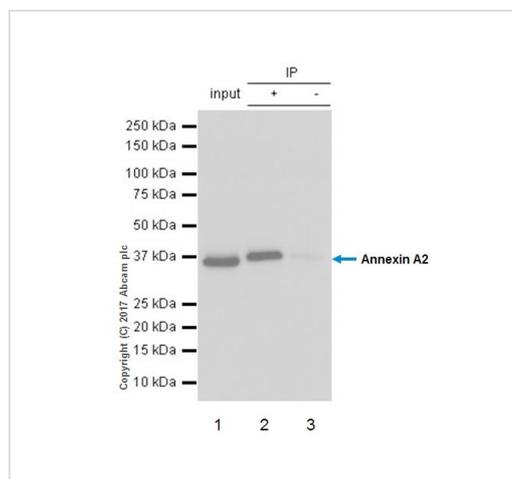
Function	Calcium-regulated membrane-binding protein whose affinity for calcium is greatly enhanced by anionic phospholipids. It binds two calcium ions with high affinity. May be involved in heat-stress response.
Sequence similarities	Belongs to the annexin family. Contains 4 annexin repeats.
Domain	A pair of annexin repeats may form one binding site for calcium and phospholipid.
Post-translational modifications	Phosphorylation of Tyr-24 enhances heat stress-induced translocation to the cell surface. ISGylated.
Cellular localization	Secreted > extracellular space > extracellular matrix > basement membrane. Melanosome. In the lamina beneath the plasma membrane. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. Translocated from the cytoplasm to the cell surface through a Golgi-independent mechanism.



Flow Cytometry - Anti-Annexin-2/ANXA2 antibody [EPR18157-104] - BSA and Azide free (ab227486)

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cell line labeling Annexin-2/ANXA2 with [ab189473](#) at 1/500 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control ([ab172730](#)) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab189473](#)).



Immunoprecipitation - Anti-Annexin-2/ANXA2 antibody [EPR18157-104] - BSA and Azide free (ab227486)

Annexin-2/ANXA2 was immunoprecipitated from 0.35 mg of NIH/3T3 (mouse embryo fibroblast cell line) whole cell lysate with [ab189473](#) at 1/30 dilution. Western blot was performed from the immunoprecipitate using [ab189473](#) at 1/2000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

Lane 1: NIH/3T3 whole cell lysate 10 µg (Input).

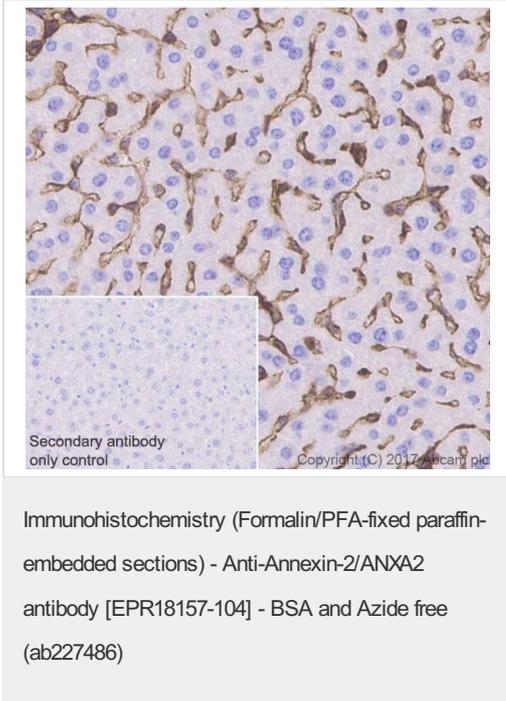
Lane 2: [ab189473](#) IP in NIH/3T3 whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab189473](#) in NIH/3T3 whole cell lysate.

Exposure time: 1 second.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab189473](#)).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling Annexin-2/ANXA2 with [ab189473](#) at 1/5000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Positive staining on the sinusoid of mouse liver (PMID: 23188673). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab189473](#)).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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