

Product datasheet

Anti-Cytosolic Phospholipase A2 (phospho S505) antibody [EPR18552] ab191605

Recombinant RabMAb

[4 Images](#)

Overview

| | |
|----------------------------|--|
| Product name | Anti-Cytosolic Phospholipase A2 (phospho S505) antibody [EPR18552] |
| Description | Rabbit monoclonal [EPR18552] to Cytosolic Phospholipase A2 (phospho S505) |
| Host species | Rabbit |
| Tested applications | Suitable for: Dot blot, IP, WB |
| Species reactivity | Reacts with: Mouse |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | NIH/3T3 treated with 20 ng/ml TNF-alpha for 10 minutes whole cell lysate. |
| General notes | <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

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|-----------------------------|---|
| 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 | pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR18552 |
| Isotype | IgG |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab191605 in the following tested applications.

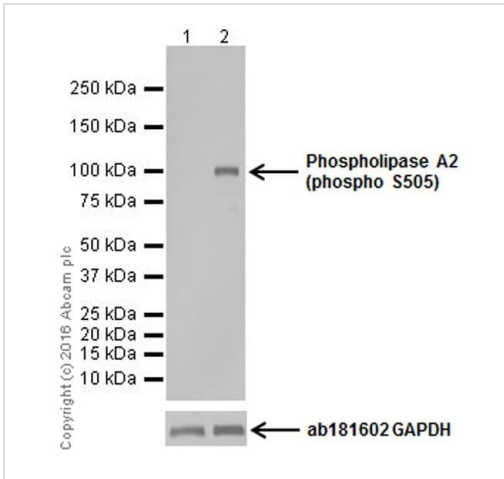
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| Dot blot | | 1/1000. |
| IP | | 1/50. |
| WB | | 1/2000. Detects a band of approximately 100 kDa (predicted molecular weight: 85 kDa). |

Target

| | |
|---|---|
| Function | Selectively hydrolyzes arachidonyl phospholipids in the sn-2 position releasing arachidonic acid. Together with its lysophospholipid activity, it is implicated in the initiation of the inflammatory response. |
| Tissue specificity | Expressed in various tissues such as macrophages, platelets, neutrophils, fibroblasts and lung endothelium. |
| Sequence similarities | Contains 1 C2 domain. Contains 1 PLA2c domain. |
| Domain | The N-terminal C2 domain associates with lipid membranes upon calcium binding. It modulates enzyme activity by presenting the active site to its substrate in response to elevations of cytosolic Ca(2+). |
| Post-translational modifications | Activated by phosphorylation at both Ser-505 and Ser-727. |
| Cellular localization | Cytoplasm. Cytoplasmic vesicle. Translocates to membrane vesicles in a calcium-dependent fashion. |

Images



Western blot - Anti-Cytosolic Phospholipase A2 (phospho S505) antibody [EPR18552] (ab191605)

All lanes : Anti-Cytosolic Phospholipase A2 (phospho S505) antibody [EPR18552] (ab191605) at 1/2000 dilution

Lane 1 : Untreated NIH/3T3 (Mouse embryonic fibroblast cell line) whole cell lysate

Lane 2 : NIH/3T3 (Mouse embryonic fibroblast cell line) treated with 20 ng/ml TNF-alpha for 10 minutes whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

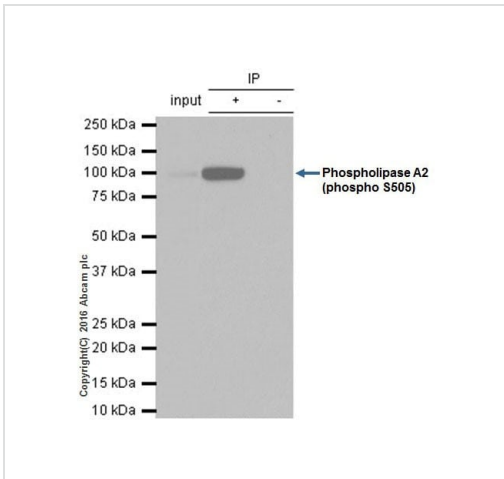
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 85 kDa

Observed band size: 100 kDa

Exposure time: 10 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Immunoprecipitation - Anti-Cytosolic Phospholipase A2 (phospho S505) antibody [EPR18552] (ab191605)

ab191605 at 1/50 dilution immunoprecipitating Cytosolic Phospholipase A2 (phospho S505) in NIH/3T3 (mouse embryo) whole cell lysate.

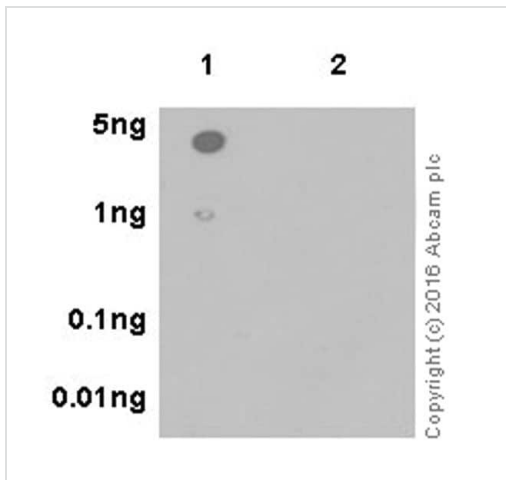
Lane 1 (input): NIH/3T3 cells treated with 20ng/ml TNF-a for 60min whole cell lysate 10µg

Lane 2 (+): ab191605 + NIH/3T3 cells treated with 20ng/ml TNF-a for 60min whole cell lysate

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab191605 in NIH/3T3 cells treated with 20ng/ml TNF-a for 60min whole cell lysate

For western blotting, ab191605 1/1000 dilution and VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution.

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







Dot Blot - Anti-Cytosolic Phospholipase A2 (phospho S505) antibody [EPR18552] (ab191605)

Dot blot analysis of Cytosolic Phospholipase A2 (phospho S505) phospho peptide (Lane 1) and Phospholipase A2 Non-phospho peptide (Lane 2) labeled using ab191605 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated ([ab97051](#)) secondary antibody at 1/100000 dilution.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 3 minutes.

Why choose a recombinant antibody?

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|--|--|
|  <p>Research with confidence Consistent and reproducible results</p> |  <p>Long-term and scalable supply Recombinant technology</p> |
|  <p>Success from the first experiment Confirmed specificity</p> |  <p>Ethical standards compliant Animal-free production</p> |

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