Product datasheet

Anti-Cytosolic Phospholipase A2 antibody ab58375

Overview

Product name: Anti-Cytosolic Phospholipase A2 antibody
Description: Rabbit polyclonal to Cytosolic Phospholipase A2
Host species: Rabbit
Tested applications: Suitable for: WB, IHC-P
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide within Human Cytosolic Phospholipase A2 aa 450-550. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please contact our Scientific Support team to discuss your requirements.
Database link: P47712

General notes:
The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer: pH: 7.40
Preservative: 0.02% Sodium azide
Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
Without Mg+2 and Ca+2

Purity: Immunogen affinity purified
Purification notes: ab58375 was affinity purified from rabbit antiserum affinity chromatography using epitope-specific immunogen.
Clonality: Polyclonal
Isotype: IgG

Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab58375 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td>★★★★☆☆☆☆☆ (1)</td>
<td>1/500 - 1/1000. Detects a band of approximately 110 kDa (predicted molecular weight: 85 kDa).</td>
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<tr>
<td>IHC-P</td>
<td>★★★★☆☆☆☆☆ (1)</td>
<td>Use at an assay dependent concentration.</td>
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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.


Images
All lanes: Anti-Cytosolic Phospholipase A2 antibody (ab58375) at 1/500 dilution

Lane 1: HeLa cell extracts treated with TNF alpha (20ng/ml, 30mins)
Lane 2: HeLa cell extracts treated with TNF alpha (20ng/ml, 30mins) with immunising peptide

Predicted band size: 85 kDa
Observed band size: 110 kDa

ab58375 at 1/50-1/100 dilution staining Cytosolic Phospholipase A2 in human colon carcinoma by Immunohistochemistry, Paraffin embedded tissue, in the absence or presence of the immunising peptide.

Immunohistochemical analysis of Human spleen tissue, staining Phospholipase A2 with ab58375.

Tissue was fixed with formaldehyde and blocked with blocking solution for 10 minutes at 37°C; antigen retrieval was by heat mediation in a cell conditioner. Samples were incubated with primary antibody (undiluted) for 1 hour at 37°C. A biotinylated-conjugated goat anti-rabbit polyclonal IgG was used as the secondary antibody.
Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

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