

# Anti-Cytosolic Phospholipase A2 (phospho S505) antibody ab53105

**15 References**   **3 图像**

### 概述

产品名称	Anti-Cytosolic Phospholipase A2 (phospho S505)抗体
描述	兔多克隆抗体 to Cytosolic Phospholipase A2 (phospho S505)
宿主	Rabbit
经测试应用	适用于: WB, IHC-P, ICC/IF
种属反应性	与反应: Human
免疫原	Synthetic peptide corresponding to Human Cytosolic Phospholipase A2 (phospho S505). Sequence: P-L-Sp-P-L

 [Run BLAST with](#)

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### 常规说明

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

### 性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride, PBS
	Without Mg+2 and Ca+2
纯度	Immunogen affinity purified
纯化说明	ab53105 was affinity purified from rabbit antiserum by affinity chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.

克隆

多克隆

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab53105于以下的经测试应用

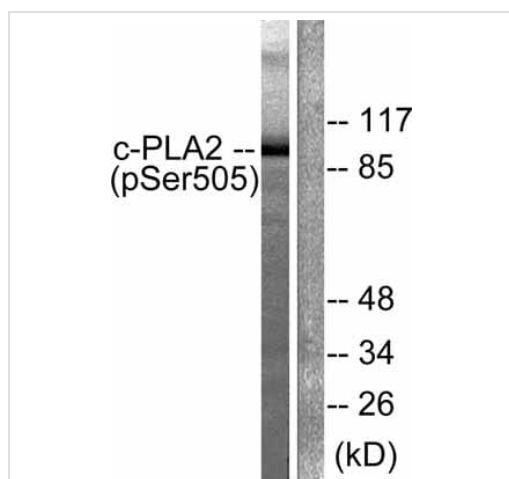
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/300 - 1/1000. Detects a band of approximately 110 kDa (predicted molecular weight: 85 kDa).
IHC-P		Use at an assay dependent concentration.
ICC/IF		Use a concentration of 5 µg/ml.

靶标

功能	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.
组织特异性	Expressed in various tissues such as macrophages, platelets, neutrophils, fibroblasts and lung endothelium.
序列相似性	Contains 1 C2 domain. Contains 1 PLA2c domain.
结构域	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+).
翻译后修饰	Activated by phosphorylation at both Ser-505 and Ser-727.
细胞定位	Cytoplasm. Cytoplasmic vesicle. Translocates to membrane vesicles in a calcium-dependent fashion.

图片



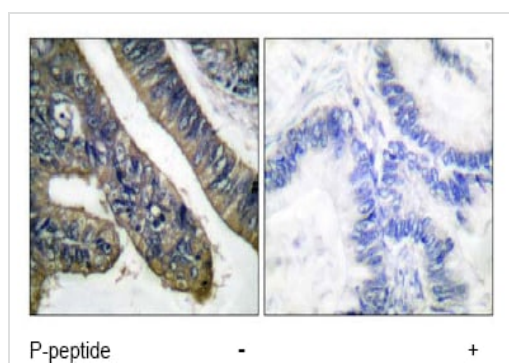
Western blot - Anti-Cytosolic Phospholipase A2 (phospho S505) antibody (ab53105)

**All lanes :** Anti-Cytosolic Phospholipase A2 (phospho S505) antibody (ab53105) at 1/300 dilution

**Lane 1 :** extracts from HeLa cells treated with TNF- $\alpha$  (20ng/ml, 30mins)

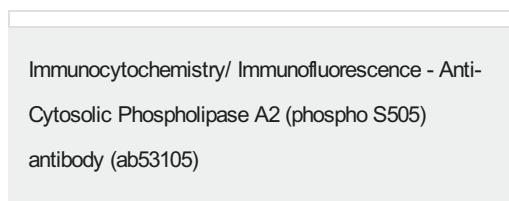
**Lane 2 :** extracts from HeLa cells treated with TNF- $\alpha$  (20ng/ml, 30mins) with immunising peptide

**Predicted band size:** 85 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytosolic Phospholipase A2 (phospho S505) antibody (ab53105)

ab53105 at 1/50 dilution staining Cytosolic Phospholipase A2 in human colon carcinoma by Immunohistochemistry, Paraffin embedded tissue, in the absence and presence of the immunising peptide.



ICC/IF image of ab53105 stained MCF7 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab53105, 5 $\mu$ g/ml) overnight at +4°C. The secondary antibody (green) was [ab96899](#), DyLight® 488 goat anti-rabbit IgG (H+L)

used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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