

Product datasheet

Anti-5 Lipoxygenase/5-LO (phospho S523) antibody ab30573

[1 References](#) [1 Image](#)

Overview

Product name	Anti-5 Lipoxygenase/5-LO (phospho S523) antibody
Description	Rabbit polyclonal to 5 Lipoxygenase/5-LO (phospho S523)
Host species	Rabbit
Specificity	Specific for the ~80k 5 Lipoxygenase/5-LO phosphorylated at Ser523 in western blots of rat hippocampal lysates.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Rat
Immunogen	Synthetic peptide within Human 5 Lipoxygenase/5-LO (phospho S523). The exact sequence is proprietary.
Positive control	WB: Rat cortex tissue lysate.
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.50 Constituents: 0.238% HEPES, 50% Glycerol, 0.87% Sodium chloride, 0.01% BSA
Purity	Immunogen affinity purified
Purification notes	Prepared from rabbit serum by affinity purification via sequential chromatography on phospho and dephosphopeptide affinity columns.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab30573 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		1/1000. Detects a band of approximately 80 kDa (predicted molecular weight: 78 kDa). The immunolabeling is completely eliminated by treatment with lambda-Phosphatase.

Target

Function

Catalyzes the first step in leukotriene biosynthesis, and thereby plays a role in inflammatory processes.

Pathway

Lipid metabolism; leukotriene A4 biosynthesis.

Sequence similarities

Belongs to the lipoxygenase family.
Contains 1 lipoxygenase domain.
Contains 1 PLAT domain.

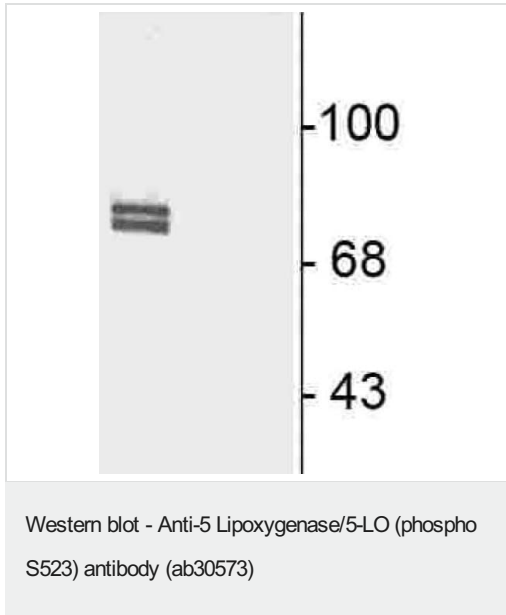
Post-translational modifications

Serine phosphorylation by MAPKAPK2 is stimulated by arachidonic acid. Phosphorylation on Ser-523 by PKA has an inhibitory effect. Phosphorylation on Ser-272 prevents export from the nucleus.

Cellular localization

Cytoplasm. Nucleus matrix. Nucleus membrane. Shuttles between cytoplasm and nucleus. Found exclusively in the nucleus, when phosphorylated on Ser-272. Calcium binding promotes translocation from the cytosol and the nuclear matrix to the nuclear envelope and membrane association.

Images



All lanes : Anti-5 Lipoxygenase/5-LO (phospho S523) antibody (ab30573) at 1/1000 dilution

All lanes : rat cortex lysate

Predicted band size: 78 kDa

Observed band size: 80 kDa

Lane 2 was incubated in lambda-Ptase (1200 units for 30 min) before being exposed to the Anti-Ser523 5Lipoxygenase

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

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