

Datasheet for ABIN743537

**anti-ALOX5 antibody (pSer271) (HRP)**[Go to Product page](#)

## Overview

|                      |                                                                                                                        |
|----------------------|------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                 |
| Target:              | ALOX5                                                                                                                  |
| Binding Specificity: | pSer271                                                                                                                |
| Reactivity:          | Rat                                                                                                                    |
| Host:                | Rabbit                                                                                                                 |
| Clonality:           | Polyclonal                                                                                                             |
| Conjugate:           | This ALOX5 antibody is conjugated to HRP                                                                               |
| Application:         | ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

## Product Details

|                       |                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic phosphopeptide derived from rat 5-Lipoxygenase around the phosphorylation site of Ser271 |
| Isotype:              | IgG                                                                                                               |
| Cross-Reactivity:     | Rat                                                                                                               |
| Predicted Reactivity: | Human, Mouse                                                                                                      |
| Purification:         | Purified by Protein A.                                                                                            |

## Target Details

|         |       |
|---------|-------|
| Target: | ALOX5 |
|---------|-------|

## Target Details

Alternative Name: 5-Lipoxygenase ([ALOX5 Products](#))

Background: Synonyms: 5-lipoxygenase, 5 LO, 5LPG, ALOX 5, ALOX5, Arachidonate 5 lipoxygenase, Arachidonic acid 5 lipoxygenase, Leukotriene A4 synthase, LOG 5, LOG5, MGC163204, LOX5\_HUMAN.

Background: This gene encodes a member of the lipoxygenase gene family and plays a dual role in the synthesis of leukotrienes from arachidonic acid. The encoded protein, which is expressed specifically in bone marrow-derived cells, catalyzes the conversion of arachidonic acid to 5(S)-hydroperoxy-6-trans-8,11,14-cis-eicosatetraenoic acid, and further to the allylic epoxide 5(S)-trans-7,9-trans-11,14-cis-eicosatetraenoic acid (leukotriene A4). Leukotrienes are important mediators of a number of inflammatory and allergic conditions. Mutations in the promoter region of this gene lead to a diminished response to antileukotriene drugs used in the treatment of asthma and may also be associated with atherosclerosis and several cancers. Alternatively spliced transcript variants have been observed, but their full-length nature has not been determined.

Gene ID: 240

## Application Details

Application Notes: IHC-P 1:200-400  
IHC-F 1:100-500

Restrictions: For Research Use only

## Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling Advice: Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase.

Storage: -20 °C

## Handling

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| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |
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| Expiry Date: | 12 months |
|--------------|-----------|