

# ALOX5 Rabbit mAb

Catalog No.: A2877    Recombinant    7 Publications

## Basic Information

### Observed MW

78kDa

### Calculated MW

78kDa

### Category

Primary antibody

### Applications

WB,IHC-P,IF/ICC,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC1926

## 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 encoding different isoforms have been found for this gene.

## Recommended Dilutions

WB	1:1000 - 1:4000
IHC-P	1:100 - 1:1000
IF/ICC	1:100 - 1:400
ELISA	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

240

### Swiss Prot

P09917

### Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

### Synonyms

5-LO; 5LPG; LOG5; 5-LOX; ALOX5

## Contact

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	<a href="http://www.abclonal.com.cn">www.abclonal.com.cn</a>

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

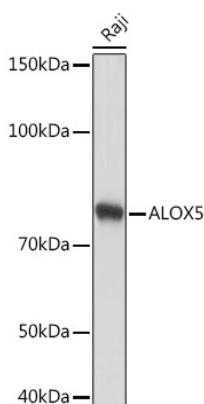
Affinity purification

### Storage

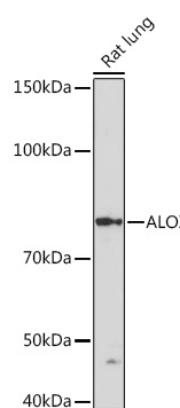
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

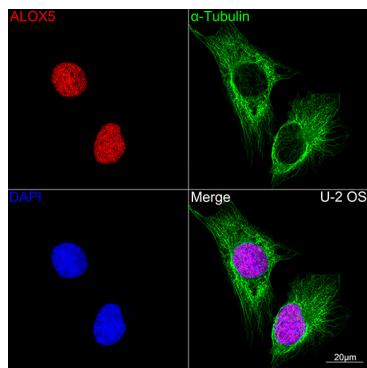
## Validation Data



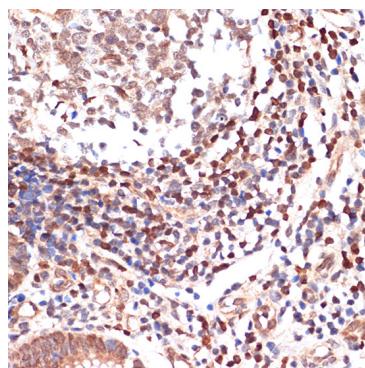
Western blot analysis of lysates from Raji cells, using ALOX5 Rabbit mAb (A2877) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 $\mu$ g per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 10s.



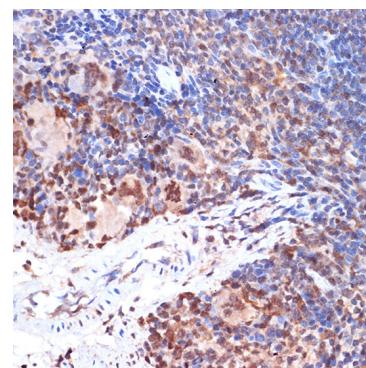
Western blot analysis of lysates from Rat lung, using ALOX5 Rabbit mAb (A2877) at 1:1000 dilution.  
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
Lysates/proteins: 25 $\mu$ g per lane.  
Blocking buffer: 3% nonfat dry milk in TBST.  
Detection: ECL Basic Kit (RM00020).  
Exposure time: 3min.



Confocal imaging of U-2 OS cells using ALOX5 Rabbit mAb (A2877, dilution 1:100). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded Human appendix using ALOX5 Rabbit mAb (A2877) at a dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris/EDTA Buffer (pH 9.0) prior to IHC staining.



Immunohistochemistry analysis of paraffin-embedded Mouse spleen tissue using ALOX5 Rabbit mAb (A2877) at a dilution of 1:100 (40x lens). Microwave antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.