

For Research Use Only

# 5 Lipoxygenase Monoclonal antibody

Catalog Number: 66326-1-Ig

Featured Product

7 Publications



## Basic Information

Catalog Number:

66326-1-Ig

Concentration:

2000 ug/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG18168

GenBank Accession Number:

BC130332

GeneID (NCBI):

240

UNIPROT ID:

P09917

Full Name:

arachidonate 5-lipoxygenase

Calculated MW:

674 aa, 78 kDa

Observed MW:

70-78 kDa

Purification Method:

Protein A purification

CloneNo.:

3B1B7

Recommended Dilutions:

WB: 1:1000-1:4000

IHC: 1:100-1:400

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, pig

Cited Species:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : pig spleen tissue, THP-1 cells

IHC : human lung tissue, human spleen tissue

## Background Information

ALOX5(arachidonate 5-lipoxygenase) is also named as LOG5, 5-LO and belongs to the lipoxygenase family. It catalyzes the first step in leukotriene biosynthesis, and plays a role in inflammatory processes. It is a 78 kDa iron-containing enzyme that translocates from the cytosol to associate with FLAP, and converts arachidonate in two steps into the unstable intermediate LTA4. It is essential for cysteinyl-leukotriene (cys-LT) production, critical mediators in asthma(PMID:12911785).

## Notable Publications

Author	Pubmed ID	Journal	Application
Hannah Weisser	36114329	Cancer Gene Ther	WB,IF
Robin W Bruckhoff	40011207	ACS Synth Biol	WB
Marius Hyprath	39877387	Front Pharmacol	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

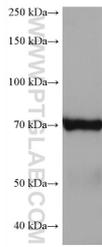
T: 4006900926

E: Proteintech-CN@ptglab.com

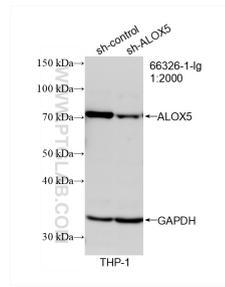
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

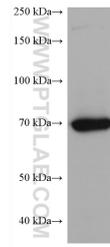
## Selected Validation Data



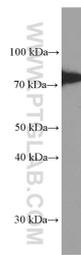
pig spleen tissue were subjected to SDS PAGE followed by western blot with 66326-1-Ig (5 Lipoxigenase antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



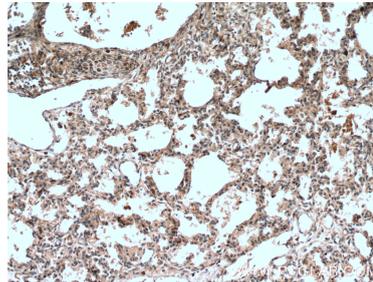
WB result of 5 Lipoxigenase antibody (66326-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-5 Lipoxigenase transfected THP-1 cells.



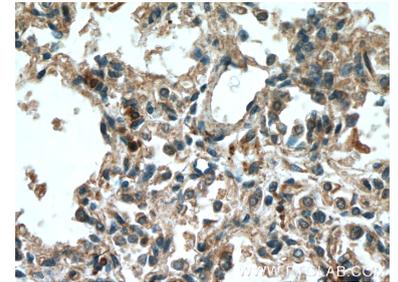
THP-1 cells were subjected to SDS PAGE followed by western blot with 66326-1-Ig (5 Lipoxigenase antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



pig spleen tissue were subjected to SDS PAGE followed by western blot with 66326-1-Ig (ALOX5 Antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 66326-1-Ig (ALOX5 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human lung tissue slide using 66326-1-Ig (ALOX5 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).