

5 Lipoxygenase Monoclonal antibody

Catalog Number: 66326-1-Ig

Featured Product

5 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
Si-Yu Cen	39134539	Cell Death Discov	WB
Yuanshuo Fan	38691241	Acta Diabetol	IHC

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

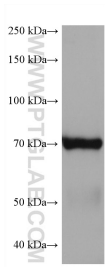
For technical support and original validation data for this product please contact:

T: 4006900926

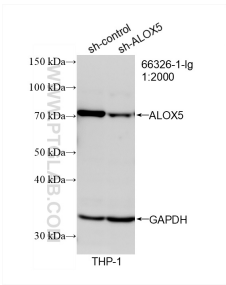
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

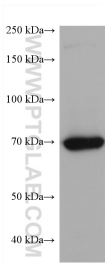
Selected Validation Data



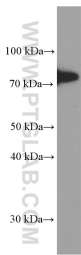
pig spleen tissue were subjected to SDS PAGE followed by western blot with 66326-1-Ig (5 Lipoxygenase antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



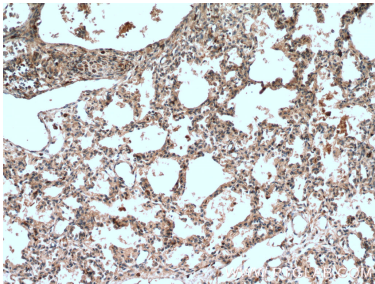
WB result of 5 Lipoxygenase antibody (66326-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-5 Lipoxygenase transfected THP-1 cells.



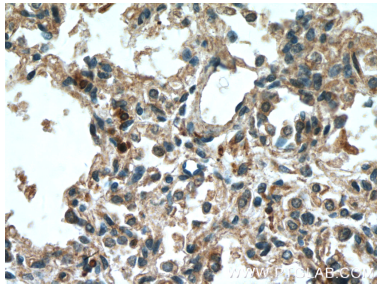
THP-1 cells were subjected to SDS PAGE followed by western blot with 66326-1-Ig (5 Lipoxygenase antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).