

For Research Use Only

# 5 Lipoxygenase Polyclonal antibody



Catalog Number: 10021-1-Ig

Featured Product

10 Publications

## Basic Information

Catalog Number:

10021-1-Ig

Size:

2000  $\mu$ g/ml

Source:

Rabbit

Isotype:

IgG

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

Recommended Dilutions:

WB 1:500-1:1000

IF 1:10-1:100

## Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB, IF, IHC

Species Specificity:

human

Cited Species:

human, rat, mouse

Positive Controls:

WB : DU 145 cells, HL-60 cells, K-562 cells, PC-3 cells, human placenta tissue

IF : HeLa cells,

## 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 LTA<sub>4</sub>. It is essential for cysteinyl-leukotriene (cys-LT) production, critical mediators in asthma(PMID:12911785).

## Notable Publications

Author	Pubmed ID	Journal	Application
Xiao-Xue Li	34868262	Front Genet	WB
Mei Zheng	35637792	J Immunol Res	WB
Hao Chen	35571613	Dis Markers	WB

## Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

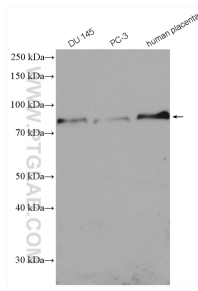
T: 4006900926

E: Proteintech-CN@ptglab.com

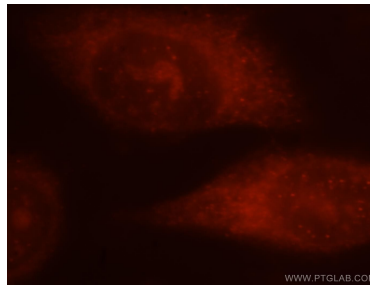
W: ptgcn.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10021-1-Ig (5 Lipoygenase antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HeLa cells, using ALOX5 antibody 10021-1-Ig at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).