

For Research Use Only

# 5 Lipoxygenase Polyclonal antibody

Catalog Number: 10021-1-Ig

Featured Product

10 Publications



## Basic Information

<b>Catalog Number:</b> 10021-1-Ig	<b>GenBank Accession Number:</b> BC130332	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2000 µg/ml by Nanodrop and 527 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 240	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IF 1:10-1:100
<b>Source:</b> Rabbit	<b>Full Name:</b> arachidonate 5-lipoxygenase	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 674 aa, 78 kDa	
	<b>Observed MW:</b> 78 kDa	

## Applications

<b>Tested Applications:</b> IF, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB :</b> DU 145 cells, HL-60 cells, K-562 cells, PC-3 cells, human placenta tissue
<b>Species Specificity:</b> human	<b>IF :</b> HeLa cells,
<b>Cited Species:</b> human, rat, mouse	

## 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

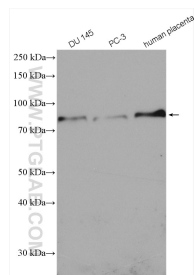
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

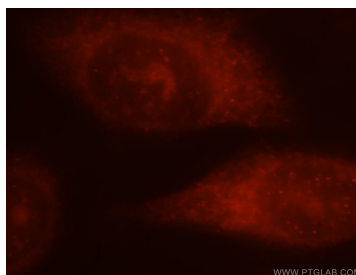
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10021-1-Ig (5 Lipoxigenase 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).