

For Research Use Only

5 Lipoxygenase Monoclonal antibody, PBS Only



Catalog Number: 66326-1-PBS

Basic Information

Catalog Number: 66326-1-PBS	GenBank Accession Number: BC130332	Purification Method: Protein A purification
Size: 1 mg/ml	GeneID (NCBI): 240	CloneNo.: 3B1B7
Source: Mouse	UNIPROT ID: P09917	
Isotype: IgG2a	Full Name: arachidonate 5-lipoxygenase	
Immunogen Catalog Number: AG18168	Calculated MW: 674 aa, 78 kDa	
	Observed MW: 78 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human, pig

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).

Storage

Storage:
Store at -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only

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

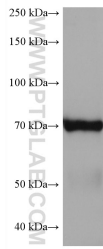
T: 4006900926

E: Proteintech-CN@ptglab.com

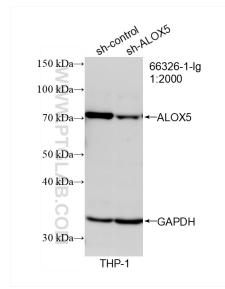
W: ptgcn.com

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

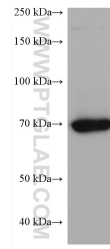
Selected Validation Data



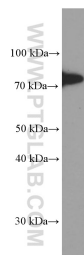
pig spleen tissue were subjected to SDS PAGE followed by western blot with 66326-1-Ig (5 Lipoxigenase antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66326-1-PBS in a different storage buffer formulation.



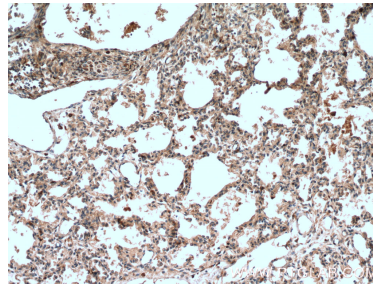
WB result of 5 Lipoxigenase antibody (66326-1-Ig; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-5 Lipoxigenase transfected THP-1 cells. This data was developed using the same antibody clone with 66326-1-PBS in a different storage buffer formulation.



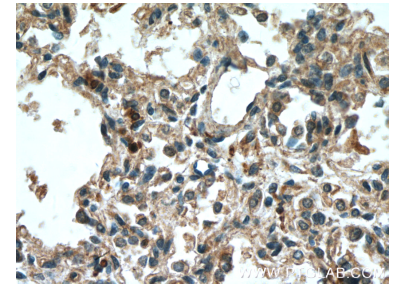
THP-1 cells were subjected to SDS PAGE followed by western blot with 66326-1-Ig (5 Lipoxigenase antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 66326-1-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 66326-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66326-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 66326-1-PBS in a different storage buffer formulation.