

For Research Use Only

Multi-rAb® 5 Lipoyxygenase Multi-Recombinant antibody

Catalog Number: RMX00080



Basic Information

Catalog Number: RMX00080	GenBank Accession Number: BC130332	Purification Method: N/A
Size: 100ul , Concentration: 980 µg/ml by Nanodrop;	GeneID (NCBI): 240	Recommended Dilutions: WB: 1:1000-1:8000 IHC: 1:500-1:2000
Source: Rabbit	UNIPROT ID: P09917	
Isotype: IgG	Full Name: arachidonate 5-lipoxygenase	
	Calculated MW: 674 aa, 78 kDa	
	Observed MW: 70-78 kDa	

Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: human	WB : HL-60 cells, THP-1 cells IHC : human tonsillitis tissue,

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

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

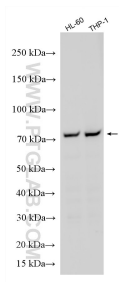
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with RMX00080 (5 Lipoxigenase antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using RMX00080 (5 Lipoxigenase antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).