

For Research Use Only

# 5 Lipoxygenase Recombinant antibody, PBS Only

Catalog Number:83794-4-PBS



## Basic Information

<b>Catalog Number:</b> 83794-4-PBS	<b>GenBank Accession Number:</b> BC130332	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 240	<b>CloneNo.:</b> 240740A10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P09917	
<b>Isotype:</b> IgG	<b>Full Name:</b> arachidonate 5-lipoxygenase	
<b>Immunogen Catalog Number:</b> AG19503	<b>Calculated MW:</b> 674 aa, 78 kDa	
	<b>Observed MW:</b> 70-78 kDa	

## Applications

**Tested Applications:**  
WB, IHC, ELISA

**Species Specificity:**  
human

## 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:

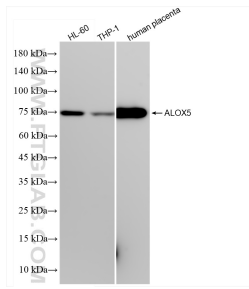
T: 4006900926

E: Proteintech-CN@ptglab.com

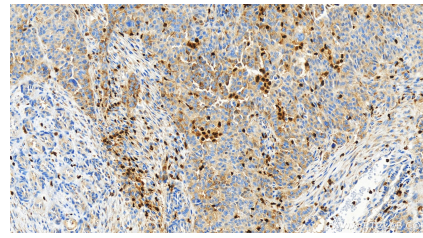
W: ptgcn.com

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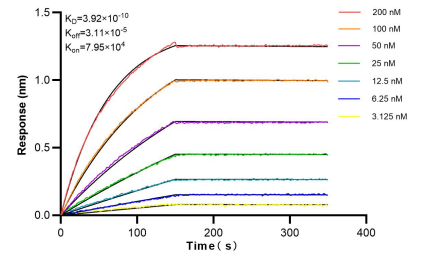
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83794-4-RR (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 83794-4-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 83794-4-RR (5 Lipoxygenase antibody) at dilution of 1:400 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83794-4-PBS in a different storage buffer formulation.



Bi-layer interferometry (BLI) kinetic assays of 83794-4-RR against Human 5 Lipoxygenase were performed. The affinity constant is 0.392 nM.