

For Research Use Only

5 Lipoxygenase Recombinant antibody, PBS Only

Catalog Number: 83794-4-PBS



Basic Information

Catalog Number: 83794-4-PBS	GenBank Accession Number: BC130332	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 240	CloneNo.: 240740A10
Source: Rabbit	UNIPROT ID: P09917	
Isotype: IgG	Full Name: arachidonate 5-lipoxygenase	
Immunogen Catalog Number: AG19503	Calculated MW: 674 aa, 78 kDa	
	Observed MW: 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.
Storage Buffer:
PBS Only

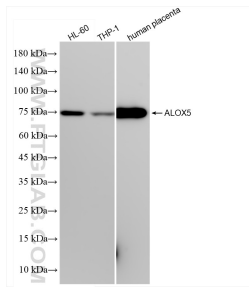
For technical support and original validation data for this product please contact:

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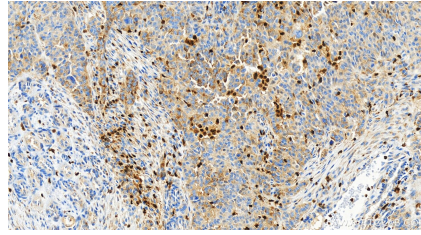
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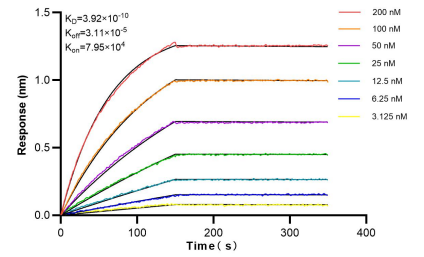
Selected Validation Data



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 Lipooxygenase 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 Lipooxygenase were performed. The affinity constant is 0.392 nM.