For Research Use Only

5 Lipoxygenase Recombinant antibody

Catalog Number:83794-4-RR



Basic Information

Catalog Number: GenBank Accession Number:

83794-4-RR BC130332 Protein A purfication GeneID (NCBI): Size: CloneNo.:

100ul, Concentration: 1000 ug/ml by 240 Nanodrop: **UNIPROT ID:** Recommended Dilutions: P09917 Rabbit Full Name:

Isotype: arachidonate 5-lipoxygenase

IgG Calculated MW: Immunogen Catalog Number: 674 aa, 78 kDa AG19503 Observed MW: 70-78 kDa

240740A10

WB 1:1000-1:4000 IHC 1:200-1:800

Purification Method:

Applications

Tested Applications: Positive Controls: WB, IHC, ELISA

WB: HL-60 cells, THP-1 cells, human placenta tissue Species Specificity:

IHC: human ovarian cancer, human

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 ironcontaining 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.

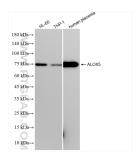
Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

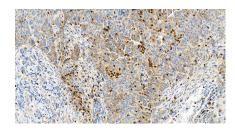
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

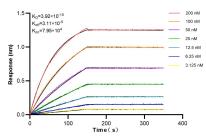
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83794-4-RR (ALOXS antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded 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).



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