

5 Lipoxygenase Monoclonal ANTIBODY

Catalog Number: 66326-1-Ig

Basic Information

Catalog Number:
66326-1-Ig

Size:
150 µg/150 µl

Source:
Mouse

Isotype:
IgG2a

Purification Method:
Protein A purification

Immunogen Catalog Number:
AG18168

GenBank Accession Number:
BC130332

GeneID (NCBI):
240

Full Name:
arachidonate 5-lipoxygenase

Calculated MW:
674aa, 78 kDa

Observed MW:
78 kDa

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:100-1:400

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

human, pig

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

Positive Controls:

WB : pig spleen tissue;

IHC : human lung tissue; human spleen tissue

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 (PMD:12911785).

Notable Publications

Author	Pubmed ID	Journal	Application
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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

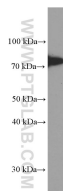
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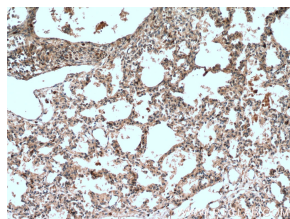
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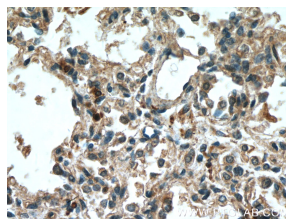
Selected Validation Data



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



Immunohistochemistry of paraffin-embedded human lung tissue slide using 66326-1-Ig(ALOX5 Antibody) at dilution of 1:200 (under 10x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunohistochemistry of paraffin-embedded human lung tissue slide using 66326-1-Ig(ALOX5 Antibody) at dilution of 1:200 (under 40x lens), heat mediated antigen retrieved with Tris-EDTA buffer(pH9).