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Goat Anti-FLAP / ALOX5AP (C Term) Antibody

Peptide-affinity purified goat antibody
Catalog # AF1420a

Specification

Goat Anti-FLAP / ALOX5AP (C Term) Antibody - Product Information

Application	**IHC**
Primary Accession	P20292
Other Accession	NP_001620, 241
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**100ug/200ul**
Isotype	**IgG**
Calculated MW	**18157**

Goat Anti-FLAP / ALOX5AP (C Term) Antibody - Additional Information

Gene ID 241

Other Names
Arachidonate 5-lipoxygenase-activating protein, FLAP, MK-886-binding protein, ALOX5AP, FLAP

Format
0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-FLAP / ALOX5AP (C Term) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-FLAP / ALOX5AP (C Term) Antibody - Protein Information

Name ALOX5AP

Synonyms FLAP

Function
Required for leukotriene biosynthesis by ALOX5 (5- lipoxygenase). Anchors ALOX5 to the membrane. Binds arachidonic acid, and could play an essential role in the transfer of arachidonic acid to ALOX5. Binds to MK-886, a compound that blocks the biosynthesis of leukotrienes.

Cellular Location

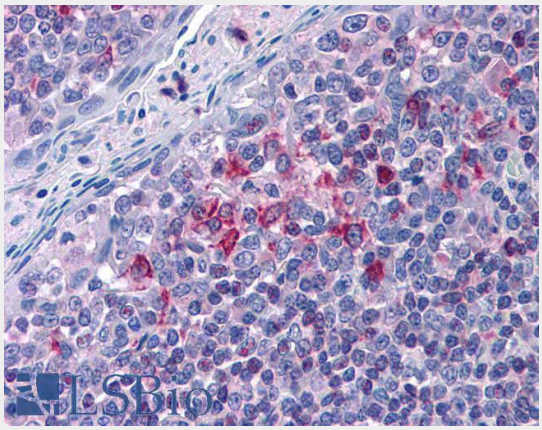
Nucleus membrane; Multi-pass membrane protein. Endoplasmic reticulum membrane; Multi-pass membrane protein

Goat Anti-FLAP / ALOX5AP (C Term) Antibody - Protocols

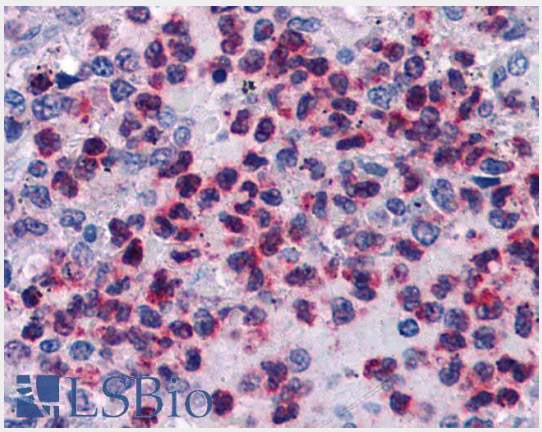
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat Anti-FLAP / ALOX5AP (C Term) Antibody - Images

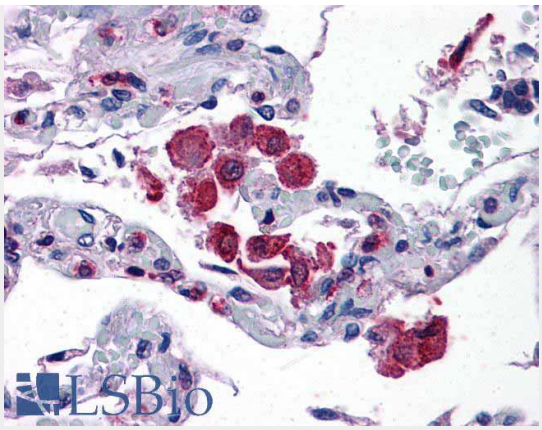


AF1420a (3.75 µg/ml) staining of paraffin embedded Human Tonsil. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.



AF1420a (3.75 µg/ml) staining of paraffin embedded Human Spleen. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

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AF1420a (3.75 µg/ml) staining of paraffin embedded Human Lung. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Goat Anti-FLAP / ALOX5AP (C Term) Antibody - Background

This gene encodes a protein which, with 5-lipoxygenase, is required for leukotriene synthesis. Leukotrienes are arachidonic acid metabolites which have been implicated in various types of inflammatory responses, including asthma, arthritis and psoriasis. This protein localizes to the plasma membrane. Inhibitors of its function impede translocation of 5-lipoxygenase from the cytoplasm to the cell membrane and inhibit 5-lipoxygenase activation.

Goat Anti-FLAP / ALOX5AP (C Term) Antibody - References

ALOX5AP and LTA4H polymorphisms modify augmentation of bronchodilator responsiveness by leukotriene modifiers in Latinos. Tcheurekdjian H, et al. J Allergy Clin Immunol, 2010 Aug 30. PMID 20810156.
Human lipoxygenase pathway gene variation and association with markers of subclinical atherosclerosis in the diabetes heart study. Burdon KP, et al. Mediators Inflamm, 2010. PMID 20592751.
Common polymorphisms in ITGA2, PON1 and THBS2 are associated with coronary atherosclerosis in a candidate gene association study of the Chinese Han population. Wang Y, et al. J Hum Genet, 2010 Aug. PMID 20485444.
Polymorphisms in innate immunity genes and risk of childhood leukemia. Han S, et al. Hum Immunol, 2010 Jul. PMID 20438785.
Risk of meningioma and common variation in genes related to innate immunity. Rajaraman P, et al. Cancer Epidemiol Biomarkers Prev, 2010 May. PMID 20406964.