

**Goat Anti-FLAP / ALOX5AP (internal) Antibody**  
Peptide-affinity purified goat antibody  
Catalog # AF1420b

**Specification**

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**Goat Anti-FLAP / ALOX5AP (internal) Antibody - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">P20292</a>
Other Accession	<a href="#">NP_001620</a> , <a href="#">241</a>
Reactivity	Human
Predicted	Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	18157

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

**Goat Anti-FLAP / ALOX5AP (internal) 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 (internal) Antibody - Protocols

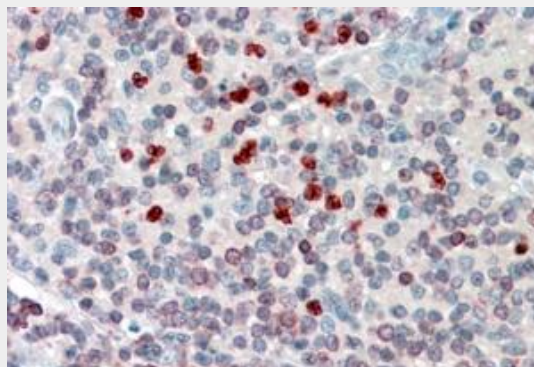
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Goat Anti-FLAP / ALOX5AP (internal) Antibody - Images



AF1420b (0.1  $\mu$ g/ml) staining of Human U937 cell lysate (35  $\mu$ g protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF1420b (3.8  $\mu$ g/ml) staining of paraffin embedded Human Spleen. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

### Goat Anti-FLAP / ALOX5AP (internal) 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 (internal) 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.