**BACKGROUND**

Arachidonate 5-lipoxygenase-activating protein (FLAP) is an arachidonic acid binding protein that is critical in the biosynthesis of leukotrienes. FLAP is an integral membrane protein that catalyzes the transformation of arachidonic acid to leukotriene A4. Leukotrienes are the biologically active metabolites of arachidonic acid that are involved in host defense pathways and play an important role in inflammatory diseases like asthma, inflammatory bowel disease, psoriasis and arthritis. Inhibitors of FLAP function prevent translocation of 5-lipoxygenase from the cytosol to the membrane and inhibit 5-lipoxygenase activation. The human FLAP gene, which maps to chromosome 13q12.3, encodes a 161 amino acid protein. In alveolar macrophages treated with LPS, FLAP activity is suppressed by the inhibition by nitric oxide synthase, although there is no observable decrease in FLAP expression by this pathway.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: ALOX5AP (human) mapping to 13q12.3; Alox5ap (mouse) mapping to 5 G3.

**SOURCE**

FLAP (FL-161) is a rabbit polyclonal antibody raised against amino acids 1-161 representing full length FLAP of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

Store at 4°C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

FLAP (FL-161) is recommended for detection of FLAP of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FLAP (FL-161) is also recommended for detection of FLAP in additional species, including equine, canine, bovine and porcine. Suitable for use as control antibody for FLAP siRNA (h): sc-41394, FLAP siRNA (m): sc-41395, FLAP shRNA Plasmid (h): sc-41394-SH, FLAP shRNA Plasmid (m): sc-41395-SH, FLAP shRNA (h) Lentiviral Particles: sc-41394-V and FLAP shRNA (m) Lentiviral Particles: sc-41395-V.

Molecular Weight of FLAP: 18 kDa.

Positive Controls: LADMAC whole cell lysate: sc-364189.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.