

Product datasheet

Anti-FLAP antibody ab85227

★★★★☆ 1 Abreviews 4 References 2 Images

Overview

Product name	Anti-FLAP antibody
Description	Rabbit polyclonal to FLAP
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rabbit, Horse, Cow, Macaque monkey
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 1 - 100 of Human FLAP. Read Abcam's proprietary immunogen policy (Peptide available as ab98291 .)
Positive control	This antibody gave a positive signal in Human small intestine tissue lysate as well as the following whole cell lysates: U937; THP1.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab85227** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆	Use a concentration of 1 µg/ml. Detects a band of approximately 14 kDa (predicted molecular weight: 14 kDa).

Application	Abreviews	Notes
ICC/IF		Use a concentration of 5 µg/ml.

Target

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.

Involvement in disease

Genetic variations in ALOX5AP may be a cause of susceptibility to ischemic stroke (ISCHSTR) [MIM:601367]; also known as cerebrovascular accident or cerebral infarction. A stroke is an acute neurologic event leading to death of neural tissue of the brain and resulting in loss of motor, sensory and/or cognitive function. Ischemic strokes, resulting from vascular occlusion, is considered to be a highly complex disease consisting of a group of heterogeneous disorders with multiple genetic and environmental risk factors.

Note=Genetic variations in ALOX5AP may be associated with susceptibility to myocardial infarction. Involvement in myocardial infarction is however unclear: according to some authors (PubMed:14770184), a 4-SNP haplotype in ALOX5AP confers risk of myocardial infarction, while according to other (PubMed:17304054) ALOX5AP is not implicated in this condition.

Sequence similarities

Belongs to the MAPEG family.

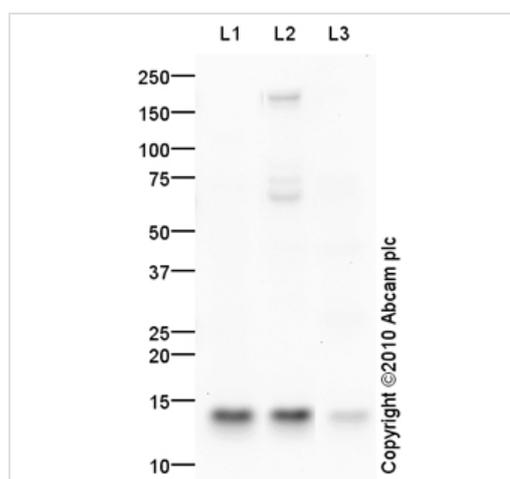
Domain

The C-terminal part after residue 140 is mostly unstructured.

Cellular localization

Nucleus membrane. Endoplasmic reticulum membrane.

Images



Western blot - Anti-FLAP antibody (ab85227)

All lanes : Anti-FLAP antibody (ab85227) at 1 µg/ml

Lane 1 : U937 (Human leukemic monocytic lymphoma cell line)

Whole Cell Lysate

Lane 2 : THP1 (Human acute monocytic leukemia cell line) Whole

Cell Lysate

Lane 3 : Human small intestine tissue lysate - total protein

([ab29276](#))

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed (HRP) at 1/3000 dilution

Developed using the ECL technique.

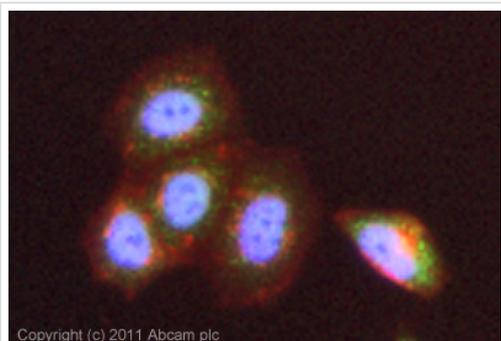
Performed under reducing conditions.

Predicted band size: 14 kDa

Observed band size: 14 kDa

Additional bands at: 175 kDa, 75 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 20 minutes



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Immunocytochemistry/ Immunofluorescence - Anti-FLAP antibody (ab85227)

ICC/IF image of ab85227 stained MCF7 cells. The cells were 4% PFA fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab85227, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899 Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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