

Monoclonal antibody against human 12-Lipoxygenase (12-LOX/ALOX12)

Product No. ADG0048

Description

12-Lipoxygenase (12-LOX) also known as Platelet-type 12-Lipoxygenase or arachidonate 12-lipoxygenase (ALOX12).

The enzyme acts on different polyunsaturated fatty acid substrates to generate bioactive lipid mediators including eicosanoids and lipoxins.

12-LOX protein plays an important role in inflammation and oxidation, while abnormal DNA methylation and genetic variants of 12-LOX are associated with various human diseases and pathological phenotypes, such as cardiovascular disease, diabetes, neurodegenerative diseases, respiratory system disease, cancer, infection, etc.

Properties

The antibody reacts with both native and recombinant 12-Lipoxygenase.

Preparation

The monoclonal antibody ADG0048 (clone no. 28.52) is a murine monoclonal antibody recognizing human 12-Lipoxygenase. Mice were immunized with purified recombinant full-length human 12-LOX, expressed in the baculovirus expression system. The antibody has been purified from cell culture supernatant using Protein A affinity chromatography.

Presentation

Vial containing 250 µg purified antibody in PBS pH 7.4. The concentration is given on the vial label. Spin the vial briefly before opening.

Storage and Stability

Store the antibody at 2°-8°C. For long-term storage the antibody should be aliquoted and stored at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

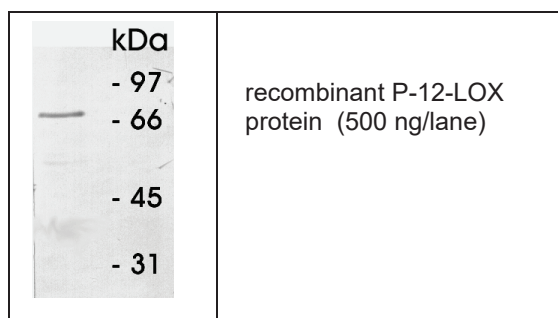
Applications

ELISA

The antibody can be used as capture antibody in ELISAs. An antibody concentration of 1-10 µg/ml is recommended.

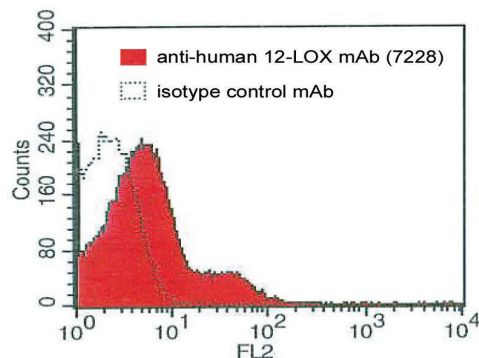
B. Western Blot

The antibody recognizes native and recombinant human P-12-LOX following SDS-PAGE under reducing conditions. A primary antibody concentration of 1-10 µg/mL is recommended.



C. Flow Cytometry

The antibody can be used for flow cytometry on Formaldehyde-fixed and permeabilized human platelets. A primary antibody conc. of 1-10 µg/ml is recommended.



References

- Human platelet 12-lipoxygenase, new findings about its activity, membrane binding and low-resolution structure. Aleem AM et al. *J Mol Biol.* 2008 Feb 8;376(1):193-209
- Platelet 12-lipoxygenase and stem cells in Barrett's esophagus. Jaciekiewicz K, Iżycka-Œwieszeńska E, Janiak M, Lysiak-Szydlowska W, Adrych K, Reinartz J, Jankun J, Skrzypczak-Jankun E. *Oncol Lett.* 2010 Sep;1(5):789-791.

Distributed by:

LOXO GMBH
IMMUNOLOGIE • MOLEKULARBIOLOGIE
BIOCHEMIE • PRODUKTE UND SYSTEME

Gerhart-Hauptmann-Str. 48
69221 Dossenheim
Tel +49 6221 868023
Fax +49 6221 8680255
www.loxo.de - info@loxo.de

For research use only!

Hinweis/Note:

ADG0048L©29092022

Der Packungsbeileger dient nur als erste Information. Der relevante Packungsbeileger liegt der Ware bei.
The datasheet is for information purposes only. The current datasheet will be enclosed with product shipment.