

Rabbit anti-human 12-LOX IgG

Product No. ADG7212

Description

Polyclonal antibody directed against human 12-Lipoxygenase (Platelet-type/arachidonate, 12-LOX, ALOX12). Rabbits were immunized with purified recombinant full-length human P-12-LOX, expressed in the baculovirus expression system. IgG was purified from rabbit serum by Protein A affinity chromatography. This polyclonal antibody reacts with both recombinant and native human 12-Lipoxygenase.

Presentation

Screw capped vial containing 500 µg of purified antibody; liquid in Tris-Glycin, pH 7.5, 0.5 M NaCl, 1mg/ml BSA, 0.02 % NaN₃

Concentration

The IgG concentration is 7.5 mg/ml.

Storage and Stability

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

Specificity

The antibody is specific for 12-LOX/ALOX12. No cross-reactivity was observed against other members of the Lipoxygenase family (5-LOX, 15-LOX-1, 15-LOX-2, 12R-LOX, and eLOX) when tested in ELISA and native PAGE.

Applications

A. ELISA

The antibody can be used as detector or coating 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.

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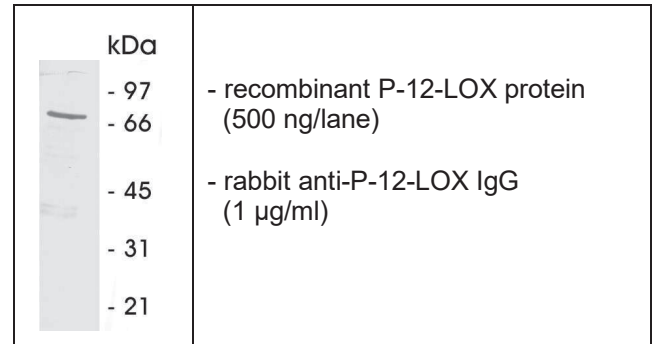
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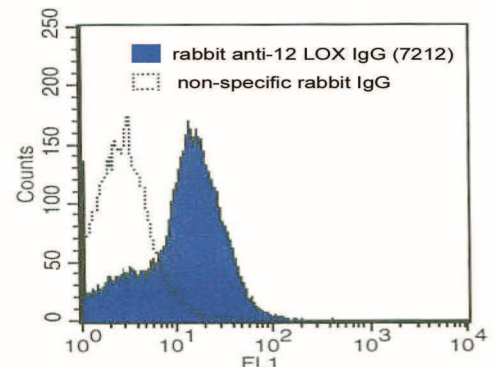
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C. Flow cytometry

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



D. Immunohistochemistry

The antibody can be used for immune-histochemistry on formalin-fixed, paraffin-embedded tissue sections. A primary antibody concentration 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., *E. J Mol Biol.* 2008 Feb 8;376(1):193-209

The naturally occurring Q261R variant of the human platelet 12-lipoxygenase exhibits a reduced catalytic activity but unaltered reaction specificity, substrate binding behavior and membrane association. Aleem AM et al., *Int J Mol Med.* 2009 Dec;24(6):759-764

Platelet 12-lipoxygenase and stem cells in Barrett's esophagus. Jaśkiewicz K et al., *Oncol Letters* 2010 1: 789-791

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Hinweis/Note:

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.