

rabbit anti-human 12-LOX IgG

Product No. 7212

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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 clear glass vial containing 1 mg of purified IgG, lyophilized from a buffer of 0.15M PBS, pH 7.4 with 200 mM mannitol added as an excipient.

Reconstitution

Add 1 mL of filtered deionized water to generate a 1 mg/mL stock solution.

Storage and Stability

Store the vial of lyophilized IgG at 2°-8°C. Reconstituted IgG may be aliquoted and stored frozen at -20°C or colder. It is recommended to avoid freeze-thaw cycles.

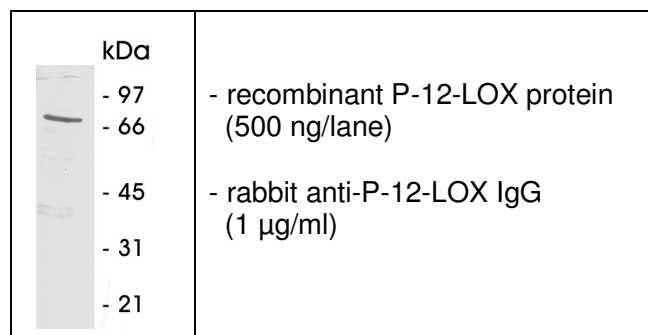
Specificity

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. 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.

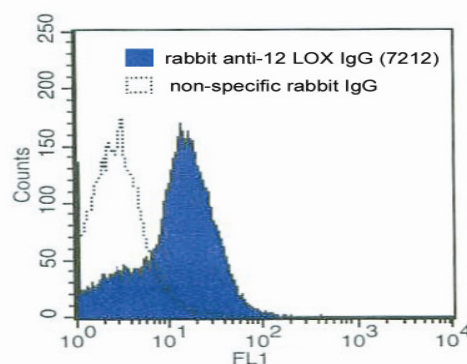


B. ELISA

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



D. Immunohistochemistry

The antibody can be used for immunohistochemistry on formalin-fixed, paraffin-embedded tissue sections. A primary antibody concentration of 1-10 µg/ml is recommended.

References

1. Human platelet 12-lipoxygenase, new findings about its activity, membrane binding and low-resolution structure. Aleem AM, Jankun J, Dignam JD, Walther M, Kühn H, Svergun DI, Skrzypczak-Jankun E. *J Mol Biol.* 2008 Feb 8;376(1):193-209.