

## Basic Information

|                           |  |            |
|---------------------------|--|------------|
| <b>Product Name</b>       | Anti-5 Lipoxygenase/ALOX5 Antibody   |            |
| <b>Gene Name</b>          | ALOX5  |            |
| <b>Source</b>             | Rabbit   |            |
| <b>Clonality</b>          | Polyclonal   |            |
| <b>Isotype</b>            | IgG  |            |
| <b>Species Reactivity</b> | human, mouse, rat  |            |
| <b>Tested Application</b> | IHC,WB   |            |
| <b>Contents</b>           | 500 ug/ml antibody with PBS, 0.02% NaN <sub>3</sub> , 1 mg/ml BSA and 50% glycerol.  |            |
| <b>Immunogen</b>          | E.coli-derived human ALOX5 recombinant protein (Position: A120-R483). Human ALOX5 shares 94% amino acid (aa) sequence identity with both mouse and rat ALOX5.  |            |
| <b>Concentration</b>      | 500 ug/ml  |            |
| <b>Purification</b>       | Immunogen affinity purified.   |            |
| <b>Observed MW</b>        | 78 kDa   |            |
| <b>Dilution Ratios</b>    | Western blot (WB):   | 1:500-2000 |
|                           | Immunohistochemistry (IHC):  | 1:50-400   |
|                           | (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |            |

## Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

## Background Information

Arachidonate 5-lipoxygenase, also known as 5-LOX or 5-LO, is an enzyme that in humans is encoded by the ALOX5 gene. ALOX5 is a member of the lipoxygenase family of enzymes. It is mapped to 10q11.21. ALOX5 plays a dual role in the synthesis of leukotrienes from arachidonic acid. The position of ALOX5 within the nucleus of resting cells determines the capacity to generate LTB<sub>4</sub> upon subsequent activation. It is involved in lung vascular tone regulation and in the development of chronic pulmonary hypertension in hypoxic rodent models. ALOX5 also transforms EFAs into leukotrienes and is a current target for pharmaceutical intervention in a number of diseases.

## Reference

Anti-5 Lipoxygenase/ALOX5 Antibody被引用在1文献中。

Product datasheet

## Anti-5 Lipoygenase/ALOX5 Antibody

Catalog Number: **PB0008**

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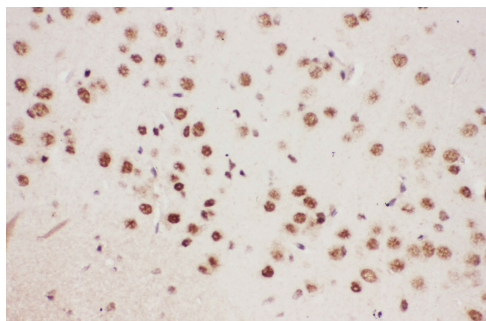
antibody and ELISA experts

**BOSTER BIOLOGICAL TECHNOLOGY**

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## Selected Validation Data



IHC(P): Mouse Brain Tissue

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All lanes: Anti-ALOX5 (PB0008) at 0.5ug/ml WB: SGC Whole Cell  
Lysate at 40ug Predicted bind size: 78KD Observed bind size: 78KD

130KD -

100KD -

70KD -

55KD -

35KD -

25KD -

15KD -

