

## Anti-5 Lipoxygenase/ALOX5 Antibody Picoband®

Catalog Number: RP1031

### About ALOX5

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 LTB4 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.

### Overview

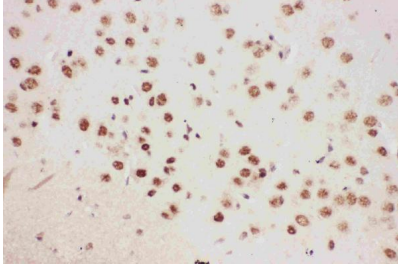
Product Name	Anti-5 Lipoxygenase/ALOX5 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-5 Lipoxygenase/ALOX5 Antibody catalog # RP1031. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , and 0.05 mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P09917

### Technical Details

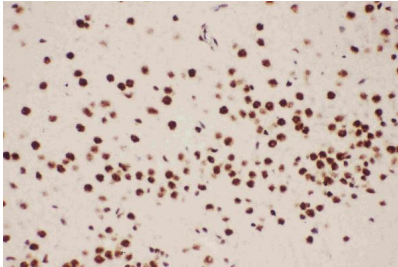
Immunogen	E.coli-derived human ALOX5 recombinant protein (Position: A120-R483). Human ALOX5 shares 94% amino acid (aa) sequence identity with both mouse and rat ALOX5.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).

Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat Western blot, 0.1-0.5ug/ml, Human

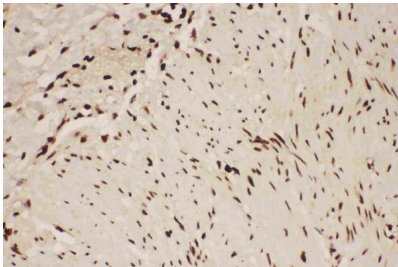
## Anti-5 Lipoxygenase/ALOX5 Antibody Picoband® (RP1031) Images



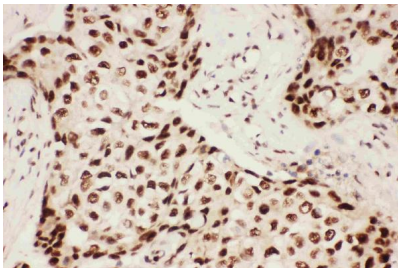
Anti-ALOX5 Picoband antibody, RP1031-1.JPGIHC(P): Mouse Brain Tissue



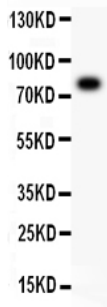
Anti-ALOX5 Picoband antibody, RP1031-2.JPGIHC(P): Rat Brain Tissue



Anti-ALOX5 Picoband antibody, RP1031-3.JPGIHC(P): Human Intestinal Cancer Tissue



Anti-ALOX5 Picoband antibody, RP1031-4.JPGIHC(P): Human Mammary Cancer Tissue



Anti-ALOX5 Picoband antibody, RP1031-5.jpgAll lanes: Anti-ALOX5 (RP1031) at 0.5ug/mlWB: SGC Whole Cell Lysate at 40ugPredicted bind size: 78KDObserved bind size: 78KD

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### Anti-5 Lipoxygenase/ALOX5 Antibody

For Research Use Only. Not for use in diagnostic procedures.