

Anti-5 Lipoxygenase/ALOX5 Antibody

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

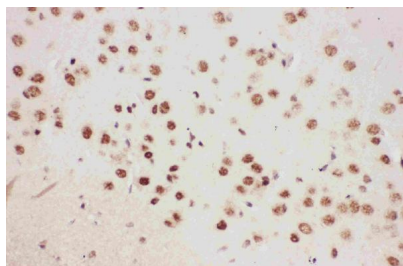
Product Name	Anti-5 Lipoxygenase/ALOX5 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-5 Lipoxygenase/ALOX5 Antibody catalog # RP1031. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat.
Application	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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

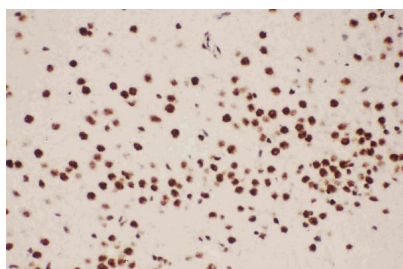
Immunogen	E.coli-derived human ALOX5 recombinant protein (Position: A120-R483). Human ALOX5 shares 94% amino acid (aa) sequence identity with both mouse and rat ALOX5.
Predicted Reactive Species	Bovine
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5ug/ml, Human

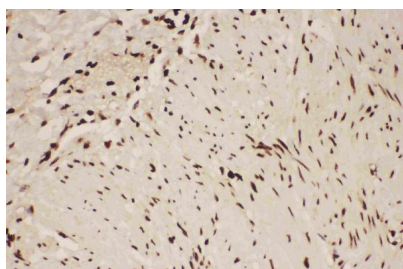
Anti-5 Lipoxxygenase/ALOX5 Antibody (RP1031) Images



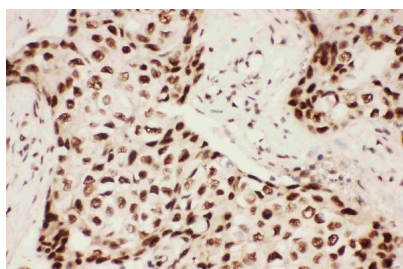
Anti-ALOX5 Picoband antibody, RP1031-1.JPG
IHC(P): Mouse Brain Tissue



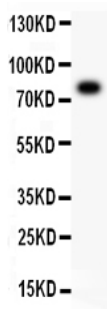
Anti-ALOX5 Picoband antibody, RP1031-2.JPG
IHC(P): Rat Brain Tissue



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



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



Anti-ALOX5 Picoband antibody, RP1031-5.jpg
All lanes: Anti-ALOX5 (RP1031) at 0.5ug/ml
WB: SGC Whole Cell Lysate at 40ug
Predicted bind size: 78KD
Observed bind size: 78KD

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