

Anti-5 Lipoxygenase/ALOX5 Antibody Picoband®

Catalog Number: PA1644

About ALOX5

ALOX5 (ARACHIDONATE 5-LIPOXYGENASE), also known as LOG5 or 5-LO (5-LIPOXYGENASE), is an enzyme that in humans is encoded by the ALOX5 gene. ALOX5 is a member of the lipoxygenase family of enzymes which also transforms EFAs into leukotrienes and is a current target for pharmaceutical intervention in a number of diseases. The enzyme 5-lipoxygenase catalyzes 2 reactions in the formation of leukotrienes. The ALOX5 gene is mapped to chromosome 10q11.21 based on an alignment of the ALOX5 sequence with the genomic sequence. Human 5-LO contains 3 nuclear localization sequences (NLSs) and a phosphorylation site involved in nuclear localization. Compared with age-matched 5-LO competent mice, the 5-LO knockout mice developed less right heart hypertrophy. Pharmacologic inhibition or ALOX5 gene disruption resulted in a significant decrease of beta-amyloid production and gamma-secretase levels. ALOX5 activity is short-lived, apparently in part because of an intrinsic instability of the enzyme.

Overview

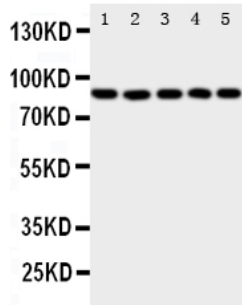
Product Name	Anti-5 Lipoxygenase/ALOX5 Antibody Picoband®
Reactive Species	Human
Description	Boster Bio Anti-5 Lipoxygenase/ALOX5 Antibody catalog # PA1644. Tested in IHC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior 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, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ . *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

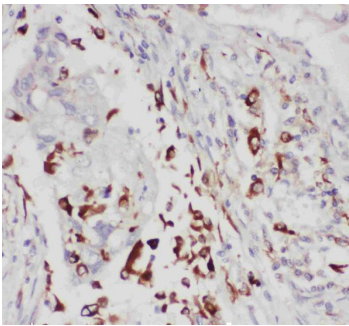
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human ALOX5, different from the related rat and mouse sequences by two amino acids.
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Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit 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 Western blot, 0.1-0.5ug/ml, Human

Anti-5 Lipoxygenase/ALOX5 Antibody Picoband® (PA1644) Images



Anti-ALOX5 antibody, PA1644, Western blotting All lanes: Anti ALOX5 (PA1644) at 0.5ug/ml Lane 1: SW620 Whole Cell Lysate at 40ug Lane 2: JURKAT Whole Cell Lysate at 40ug Lane 3: COLO320 Whole Cell Lysate at 40ug Lane 4: A549 Whole Cell Lysate at 40ug Lane 5: MCF-7 Whole Cell Lysate at 40ug Predicted bind size: 78KD Observed bind size: 78KD



Anti-ALOX5 antibody, PA1644, IHC(P)IHC(P): Human Lung Cancer Tissue

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Anti-5 Lipoxygenase/ALOX5 Antibody

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