bs-34007R **[Primary Antibody]**

ALOX15 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 246 **SWISS:** P16050

Target: ALOX15

Immunogen: KLH conjugated synthetic peptide derived from human ALOX15: 600-650/663.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Lipoxygenases are a family of enzymes which dioxygenate unsaturated fatty acids, thus initiating lipoperoxidation of membranes and synthesis of signaling molecules, as well as inducing structural and metabolic changes in the cell. The Lox enzymes in mammals include 12-LO and 15-LO, which are classified with respect to their positional specificity of the deoxygenation of their most common substrate, arachidonic acid. The metabolism of arachidonic acid leads to the generation of biologically active metabolites that have been implicated in cell growth and proliferation, as well as survival and apoptosis. 15-Lipoxygenase (15-LO) acts in physiological membrane remodeling and the pathogenesis of atherosclerosis, inflammation, and carcinogenesis. It is highly regulated and expressed in a tissue- and cell-type-specific fashion. IL-4 and IL-13 play important roles in transactivating the 15-LO gene. Overexpression of 15-LO type 1 in prostate cancer contributes to the cancer progression by regulating IGF-1R expression and activation.

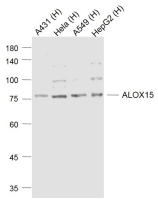
Applications: **WB** (1:500-1000)
IHC-P (1:100-500)
IHC-F (1:10-50)
IF (1:10-50)

Reactivity: Human

Predicted MW.: 75 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: A431 (Human) Cell Lysate at 30 ug Lane 2: Hela (Human) Cell Lysate at 30 ug Lane 3: A549 (Human) Cell Lysate at 30 ug Lane 4: HepG2 (Human) Cell Lysate at 30 ug Primary: Anti-ALOX15 (bs-34007R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 75 kD Observed band size: 77 kD

SELECTED CITATIONS

- **[IF=5.738]** Jie Wen. et al. OIT3 serves as a novel biomarker of hepatocellular carcinoma by mediating ferroptosis via regulating the arachidonic acid metabolism.. FRONT ONCOL. 2022 Sep;12:977348-977348 WB ;Human. 36132142