

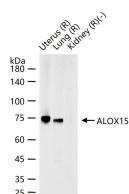
**bs-24356R****[ Primary Antibody ]****ALOX15 Rabbit pAb****Bioss**  
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**DATASHEET****Host:** Rabbit**Isotype:** IgG**Applications:** WB (1:500-2000)**Clonality:** Polyclonal**Reactivity:** Rat**Target:** ALOX15**Immunogen:** KLH conjugated synthetic peptide derived from mouse 15 Lipoxygenase 1 : 111-210/663.**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.**Predicted  
MW.:** 75 kDa**Subcellular  
Location:** Cytoplasm**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.**VALIDATION IMAGES**

25 ug total protein per lane of various lysates (see on figure) probed with ALOX15 polyclonal antibody, unconjugated (bs-24356R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

**SELECTED CITATIONS**

- **[IF=6.1]** Yi Jia-xuan. et al. Unveiling the crucial role of ferroptosis in host resistance to streptococcus agalactiae infection. CELL DEATH DISCOV. 2024 Oct;10(1):1-10 WB ;Mouse. 39353913