

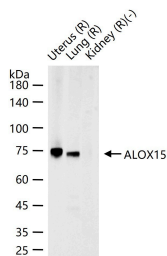
## Anti-ALOX15 Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Rat (predicted:Mouse)
Molecular Weight:	Theoretical: 75 kDa. Actual: 75 kDa.
Purification:	Protein A purified

## Applications

Verified Activity: 25 µg total protein per Lane of various lysates probed with ALOX15 polyclonal antibody, unconjugated (TMAB-00098) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.



Application:	WB
Recommended	WB: 1:500-2000

## Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.  
Shipping: Shipping with blue ice.

## Antigen Details

Immunogen:	KLH conjugated synthetic peptide: mouse 15 Lipoxigenase 1
Antigen Species:	Mouse
Synonyms:	Arachidonate 15 lipoxygenase;15 LIPOXYGENASE RETICULOCYTE ARACHIDONATE;15LOX 1;15-LOX;LOX15;15 LOX;15 lipoxygenase 1;LOG15;15 LOX 1;Arachidonate omega 6 lipoxygenase
Biology Area:	Tumor biomarkers,Lipoprotein metabolism,Metabolism,Fatty acids,Lipoprotein metabolism, Fatty acid oxidation,Heart disease,Hormones

## Research 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

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gene. Overexpression of 15-LO type 1 in prostate cancer contributes to the cancer progression by regulating IGF-1R expression and activation.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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