

Basic Information

Product Name	Anti-ALOX15 Antibody	
Gene Name	ALOX15	
Source	Rabbit	
Clonality	Polyclonal	
Isotype	IgG	
Species Reactivity	human, mouse, rat	
Tested Application	WB, IHC	
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.	
Immunogen	E.coli-derived human ALOX15 recombinant protein (Position: G2-P337). Human ALOX15 shares 72% and 73% amino acid (aa) sequences identity with mouse and rat ALOX15, respectively.	
Concentration	500 ug/ml	
Purification	Immunogen affinity purified.	
Observed MW	75 kDa	
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.	

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

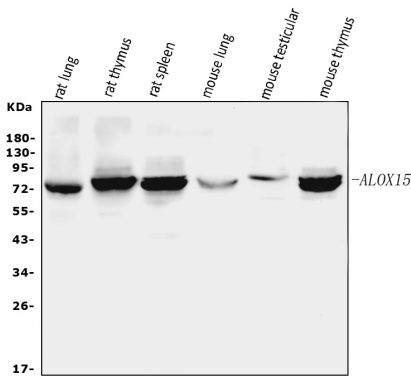
Background Information

Arachidonate 15-lipoxygenase, also known as 15 LOX or LOG15, is an enzyme that in humans is encoded by the ALOX15 gene. This gene is mapped to 17p13.2. It is found that ALOX15 is a mutator gene. ALOX15 gene product is implicated in antiinflammation, membrane remodeling, and cancer development/metastasis. Loss of the TP53 gene, or gain-of-function activities resulting from the expression of its mutant forms regulates ALOX15 promoter activity in human and in mouse, albeit in directionally opposite manners.

Reference

Anti-ALOX15 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of ALOX15 using anti-ALOX15 antibody (PB9073). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: rat lung tissue lysates,

Lane 2: rat thymus tissue lysates,

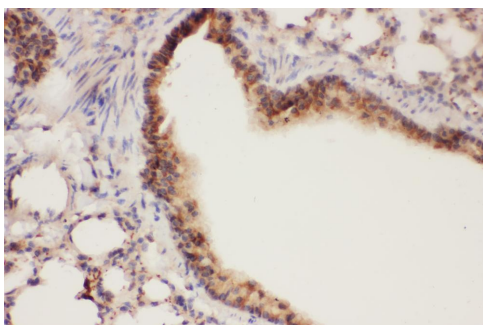
Lane 3: rat spleen tissue lysates,

Lane 4: mouse lung tissue lysates,

Lane 5: mouse testicular tissue lysates,

Lane 6: mouse thymus tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-ALOX15 antigen affinity purified polyclonal antibody (PB9073) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for ALOX15 at approximately 75 kDa. The expected band size for ALOX15 is at 75 kDa.



IHC analysis of ALOX15 using anti-ALOX15 antibody (PB9073).

ALOX15 was detected in a paraffin-embedded section of Mouse Lung tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-ALOX15 Antibody (PB9073) at a dilution of 1:200 and developed using Streptavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.