

Basic Information

Product Name	Anti-ALOX12 Antibody (Clone#24A29)
Gene Name	ALOX12
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, rat
Tested Application	WB
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human LOX12
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	75 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied.

Background Information

ALOX12, Arachidonate 12-lipoxygenase, is an enzyme that in humans is encoded by the ALOX12 gene. By fluorescence in situ hybridization, the ALOX12 gene is located in band 17p13.1. The gene consists of 14 exons with 13 introns and spans approximately 15 kb of DNA. Arachidonate 12-lipoxygenase introduces a molecular oxygen into the C-12 position of arachidonic acid to produce 12(S)-hydroperoxy-5,8,10,14-eicosatetraenoic acid. The major pathway of arachidonic acid metabolism in human platelets proceeds via a 12-lipoxygenase enzyme. Expression of the ALOX12 gene was detected in human erythroleukemia cells, platelets, and human umbilical vein endothelial cells by reverse transcription-PCR analysis.

Selected Validation Data

Western blot analysis of LOX12 expression in A431 cell lysate.

