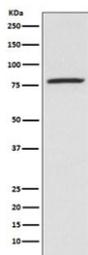


## 5-Lipoxygenase Antibody / ALOX5 [clone AECE-1] (RQ5292)

Catalog No.	Formulation	Size
RQ5292	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

[Bulk quote request](#)

<b>Availability</b>	1-2 weeks
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Rabbit Monoclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Name</b>	AECE-1
<b>Purity</b>	Affinity purified
<b>UniProt</b>	P09917
<b>Applications</b>	Western Blot : 1:500-1:2000
<b>Limitations</b>	This 5-Lipoxygenase antibody is available for research use only.



Western blot testing of human K562 cell lysate with 5-Lipoxygenase antibody. Predicted molecular weight ~78 kDa.

### Description

The ALOX5 gene encodes a member of the lipoxygenase gene family and plays a dual role in the synthesis of leukotrienes from arachidonic acid. The encoded protein, which is expressed specifically in bone marrow-derived cells, catalyzes the conversion of arachidonic acid to 5(S)-hydroperoxy-6-trans-8,11,14-cis-eicosatetraenoic acid, and further to the allylic epoxide 5(S)-trans-7,9-trans-11,14-cis-eicosatetraenoic acid (leukotriene A4). Leukotrienes are important mediators of a number of inflammatory and allergic conditions. Mutations in the promoter region of this gene lead to a diminished response to antileukotriene drugs used in the treatment of asthma and may also be associated with

atherosclerosis and several cancers. [RefSeq]

## **Application Notes**

Optimal dilution of the 5-Lipoxygenase antibody should be determined by the researcher.

## **Immunogen**

A synthetic peptide specific to human 5-Lipoxygenase / ALOX5 was used as the immunogen for the 5-Lipoxygenase antibody.

## **Storage**

Store the 5-Lipoxygenase antibody at -20oC.