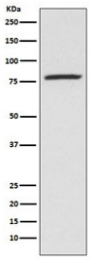
5-Lipoxygenase Antibody / ALOX5 [clone AECE-1] (RQ5292)

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

Availability	1-2 weeks
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AECE-1
Purity	Affinity purified
UniProt	P09917
Applications	Western blot: 1:500-1:2000
Limitations	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-eicosatetrenoic 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.

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