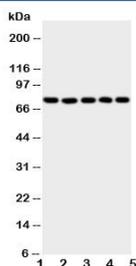


## 5-Lipoxygenase Antibody (R30728)

Catalog No.	Formulation	Size
R30728	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Antigen affinity purified
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
<b>UniProt</b>	P09917
<b>Applications</b>	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
<b>Limitations</b>	This 5-Lipoxygenase antibody is available for research use only.



Western blot testing of 5-Lipoxygenase antibody and Lane 1: SW620; 2: Jurkat; 3: COLO320; 4: A549; 5: MCF-7 cell lysate. Predicted/observed size ~78KD

## Description

5-Lipoxygenase is an enzyme that in humans is encoded by the ALOX5 gene. It is a member of the lipoxygenase family of enzymes which also transforms EFAs into leukotrienes and is a current target for pharmaceutical intervention in a number of diseases. The enzyme 5-lipoxygenase catalyzes 2 reactions in the formation of leukotrienes. Human ALOX5 contains three nuclear localization sequences (NLSs) and a phosphorylation site involved in nuclear localization. Compared with age-matched competent mice, the knockout mice developed less right heart hypertrophy. Pharmacologic inhibition or gene disruption resulted in a significant decrease of beta-amyloid production and gamma-secretase levels.

ALOX5 activity is short-lived, apparently in part because of an intrinsic instability of the enzyme.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the 5-Lipoxygenase antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the C-terminus of human ALOX5 (AERNKKKQLPYYYLSPDR) was used as the immunogen for this 5-Lipoxygenase antibody.

## Storage

After reconstitution, the 5-Lipoxygenase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.