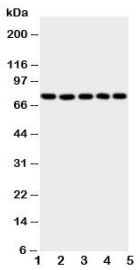
5-Lipoxygenase Antibody (R30728)

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

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	P09917
Applications	Western blot: 0.5-1ug/ml IHC (FFPE): 0.5-1ug/ml
Limitations	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.

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