

5-Lipoxygenase Antibody (R30133)

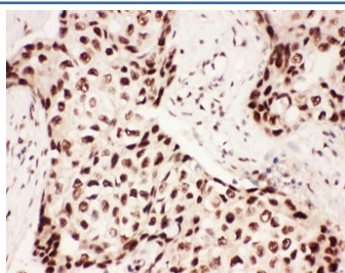
Catalog No.	Formulation	Size
R30133	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

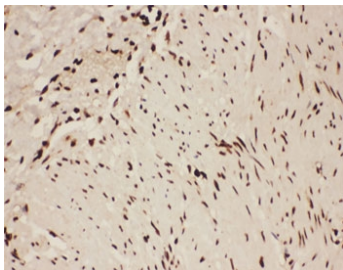
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	240
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
Limitations	This 5-Lipoxygenase antibody is available for research use only.



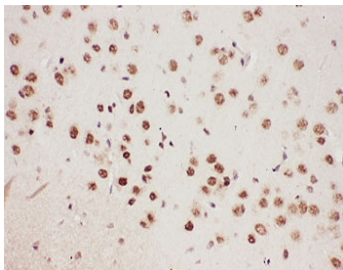
Western blot testing of 5-Lipoxygenase antibody and SGC lysate; Predicted molecular weight: ~78 kDa.



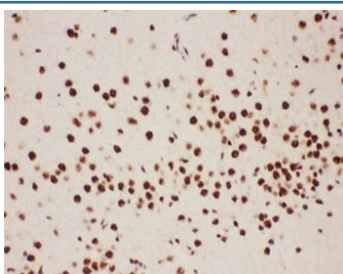
IHC-P: 5-Lipoxygenase antibody testing of human breast cancer tissue



IHC-P: 5-Lipoxygenase antibody testing of human intestine cancer tissue



IHC-P: 5-Lipoxygenase antibody testing of mouse brain tissue



IHC-P: 5-Lipoxygenase antibody testing of rat brain tissue

Description

Arachidonate 5-lipoxygenase, also known as 5-LOX or 5-LO, is an enzyme that in humans is encoded by the ALOX5 gene. It is a member of the lipoxygenase family of enzymes. It is mapped to 10q11.21. ALOX5 plays a dual role in the synthesis of leukotrienes from arachidonic acid. Its position within the nucleus of resting cells determines the capacity to generate LTB₄ upon subsequent activation. It is involved in lung vascular tone regulation and in the development of chronic pulmonary hypertension in hypoxic rodent models. ALOX5 also transforms EFAs into leukotrienes and is a current target for pharmaceutical intervention in a number of diseases.

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

Human partial recombinant protein (AA 120-483) 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 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.

