

Anti-5-LO antibody



Description	Rabbit polyclonal to 5-LO.
Model	STJ91392
Host	Rabbit
Reactivity	Human, Mouse, Rat
Applications	ELISA, IHC, WB
Immunogen	Synthesized peptide derived from human 5-LO around the non-phosphorylation site of S272.
Immunogen Region	220-300 aa
Gene ID	240
Gene Symbol	ALOX5
Dilution range	WB 1:500-1:2000IHC 1:100-1:300ELISA 1:10000
Specificity	5-LO Polyclonal Antibody detects endogenous levels of 5-LO protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Note	For Research Use Only (RUO).
Protein Name	Arachidonate 5-lipoxygenase 5-LO 5-lipoxygenase
Molecular Weight	78 kDa
Clonality	Polyclonal
Conjugation	Unconjugated

Isotype	IgG
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:435OMIM:152390
Alternative Names	Arachidonate 5-lipoxygenase 5-LO 5-lipoxygenase
Function	Catalyzes the first step in leukotriene biosynthesis, and thereby plays a role in inflammatory processes.
Cellular Localization	Cytoplasm. Nucleus matrix. Nucleus membrane. Peripheral membrane protein. Shuttles between cytoplasm and nucleus. Found exclusively in the nucleus, when phosphorylated on Ser-272. Calcium binding promotes translocation from the cytosol and the nuclear matrix to the nuclear envelope and membrane association.
Post-translational Modifications	Serine phosphorylation by MAPKAPK2 is stimulated by arachidonic acid. Phosphorylation on Ser-523 by PKA has an inhibitory effect. Phosphorylation on Ser-272 prevents export from the nucleus.

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