

LOX12 rabbit pAb

Catalog No :	YT8083
Reactivity :	Human;Mouse
Applications :	IHC;WB
Target :	ALOX12
Gene Name :	ALOX12 LOG12
Protein Name :	Arachidonate 12-lipoxygenase, 12S-type (12S-LOX) (12S-lipoxygenase) (EC 1.13.11.31) (Platelet-type lipoxygenase 12)
Human Gene Id :	239
Human Swiss Prot No :	P18054
Mouse Gene Id :	11684
Mouse Swiss Prot No :	P39655
Immunogen :	Synthesized peptide derived from human N-terminal LOX12
Specificity :	This antibody detects endogenous levels of LOX12 at Human, Mouse
Formulation :	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500-2000 IHC 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight : 73kD

Function : Catalyzes the regio and stereo-specific incorporation of molecular oxygen into free and esterified polyunsaturated fatty acids generating lipid hydroperoxides that can be further reduced to the corresponding hydroxy species . Mainly converts arachidonate ((5Z,8Z,11Z,14Z)-eicosatetraenoate) to the specific bioactive lipid (12S)-hydroperoxyeicosatetraenoate/(12S)-HPETE . Through the production of bioactive lipids like (12S)-HPETE it regulates different biological processes including platelet activation . It can also catalyze the epoxidation of double bonds of polyunsaturated fatty acids such as (14S)-hydroperoxy-docosahexaenoate/(14S)-HPDHA resulting in the formation of (13S,14S)-epoxy-DHA . Furthermore, it may participate in the sequential oxidations of DHA ((4Z,7Z,10Z,13Z,16Z,19Z)-docosahexaenoate) to generate specialized pro-resolving mediators (SPMs) like resolvin D5 ((7S,17S)-diHPDHA)

Subcellular Location : Cytoplasm, cytosol. Membrane. Membrane association is stimulated by EGF.

Expression : Expressed in vascular smooth muscle cells.

Sort : 999

No4 : 1

Host : Rabbit

Modifications : Unmodified

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