LOX12 mouse mAb

Catalog No	YP-mAb-17240
Isotype	IgG
Reactivity	Human, Mouse,Rat
Applications	WB
Gene Name	ALOX12 LOG12
Protein Name	Arachidonate 12-lipoxygenase, 12S-type (12S-LOX) (12S-lipoxygenase) (EC 1.13.11.31) (Platelet-type lipoxygenase 12)
Immunogen	Synthesized peptide derived from human N-ternal 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	mouse,Monoclonal
Purification	The antibody was affinity-purified from mouse serum by affinity-chromatography using specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Arachidonate 12-lipoxygenase, 12S-type (12S-LOX) (12S-lipoxygenase) (EC 1.13.11.31) (Platelet-type lipoxygenase 12)
Calculated Molecular Weight	73kD
Cell Pathway	Cytoplasm, cytosol. Membrane. Membrane association is stimulated by EGF.
Tissue Specificity	Expressed in vascular smooth muscle cells.
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
Background	

matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

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