

## LOX12 rabbit pAb

<b>Catalog No :</b>	YT8083
<b>Reactivity :</b>	Human;Mouse
<b>Applications :</b>	IHC;WB
<b>Target :</b>	ALOX12
<b>Gene Name :</b>	ALOX12 LOG12
<b>Protein Name :</b>	Arachidonate 12-lipoxygenase, 12S-type (12S-LOX) (12S-lipoxygenase) (EC 1.13.11.31) (Platelet-type lipoxygenase 12)
<b>Human Gene Id :</b>	239
<b>Human Swiss Prot No :</b>	P18054
<b>Mouse Gene Id :</b>	11684
<b>Mouse Swiss Prot No :</b>	P39655
<b>Immunogen :</b>	Synthesized peptide derived from human N-terminal LOX12
<b>Specificity :</b>	This antibody detects endogenous levels of LOX12 at Human, Mouse
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000 IHC 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-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

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**Subcellular Location :** Cytoplasm, cytosol. Membrane. Membrane association is stimulated by EGF.**Expression :** Expressed in vascular smooth muscle cells.

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## Products Images