

Datasheet for ABIN372586
anti-ALOX5 antibody (pSer523)



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1 Image

Overview

Quantity:	0.1 mL
Target:	ALOX5
Binding Specificity:	pSer523
Reactivity:	Human, Rat, Primate
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ALOX5 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser523 of human 5-Lipoxygenase (5-LO).
Isotype:	IgG
Specificity:	Recognizes the ~80k 5-LO phosphorylated at Ser523 in Western blots.
Cross-Reactivity (Details):	Species reactivity (expected):non-Human Primates. Species reactivity (tested):Human and Rat.
Purification:	Sequential Chromatography on phospho- and dephosphopeptide affinity columns.

Target Details

Target:	ALOX5
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Target Details

Alternative Name:	ALOX5 / LOG5 (ALOX5 Products)
Background:	The enzyme 5-lipoxygenase (5-LO) plays a key role in regulating the production of leukotrienes (LTs) (Funk, 2001). Overproduction of LTs contributes to several diseases, most notably chronic inflammatory diseases, including asthma (Drazen et al., 1994), fibrosis (Wilborn et al., 1996) and atherosclerosis (Dwyer et al., 2004). Recent work has demonstrated that the activity of 5-LO is regulated by PKA phosphorylation of serine-523 in 5-LO (Luo et al., 2004). Under normal conditions, this phosphorylation may be important in limiting inflammation. Abnormal signaling through cAMP and PKA, then, could contribute to a variety of diseases, including those characterized by chronic inflammation. The phospho-specific antibody to Ser523 on 5-LO is thus likely to provide a valuable tool for studies of the role of 5-LO regulation in diseases such as asthma, fibrosis and atherosclerosis. Synonyms: 5-LO, 5-lipoxygenase, Arachidonate 5-lipoxygenase
Gene ID:	240
NCBI Accession:	NP_000689
UniProt:	P09917

Application Details

Application Notes:	Western Blot: 1/1000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg/mL BSA and 50 % Glycerol.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store the antibody undiluted (in aliquots) at -20 °C.

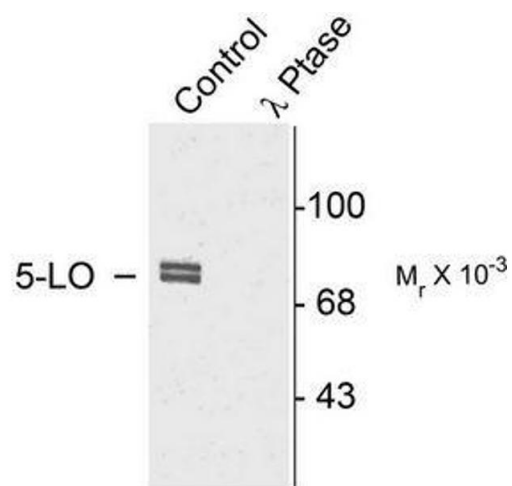


Image 1.