Store at -200

Phospho-5-Lipoxygenase (Ser663) **Antibody**



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Applications: WB	Reactivity: H	Sensitivity: Transfected Only	MW (kDa): 78, 80	Source: Rabbit	UniProt ID: #P09917	Entrez-Gene lo 240
Product Usage Information	Application		Dilution			
	We	estern Blotting			1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity Phospho-5-Lipoxygena when phosphorylated a			ase (Ser663) Antibody detects overexpressed phospho-5-lipoxygenase protein only at Ser663.			
Source / Purification	Antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to resurrounding Ser663 of human 5-lipoxygenase protein.					
Background	leul pro to a the: poly Ove Dep Foll syn of 5	Kotriene LTA₄ from a tein (FLAP, ALOX5A activate 5-LO. A num se lipid mediators fu ymorphonuclear leulerexpression of 5-LC pending upon the ce lowing stimulation, 5 thesis (2,3). Phosph 5-LO at Ser523 by P	trachidonic acid (1,, P), a nuclear member of related leukonction in immune recocytes, peripheral protein is seen in Il type, 5-LO is local-LO translocates to orylation of specific KA family kinases is	2). Leukotriene synt brane-bound protein otrienes (i.e. B ₄ , C ₄ , eaction regulation. 5 blood monocytes, no certain cancer cells alized to either the content of the nucleus and as the residues can regulation of the synthesis oxygenase and the synthesis oxygenase as the synthesis oxygenase and the synthesis	me responsible for the bithesis also requires 5-lipin that binds arachidonic D ₄) are derived from LT. 5-LO is primarily express anacrophages, and mast and is associated with pytosol or the nucleus of essociates with FLAP to clate 5-LO enzymatic activictivity (6,7) while MAPK of enzymatic activity in viv	oxygenase-activating acid and is thought A ₄ and together ed in cells (1,3). coor diagnosis (1,4). quiescent cells (5). atalyze LTA ₄ vity. Phosphorylation AP2 and ERK family
Background Refere	 Woods, J.W. et al. (1995) J Clin Invest 95, 2035-46. Evans, J.F. et al. (2008) Trends Pharmacol Sci 29, 72-8. Radmark, O. et al. (2007) Trends Biochem Sci 32, 332-41. Chen, X. et al. (2006) Curr Cancer Drug Targets 6, 613-22. Werz, O. (2002) Curr Drug Targets Inflamm Allergy 1, 23-44. 					

Species reactivity is determined by testing in at least one approved application (e.g., western blot). **Species Reactivity**

6. Luo, M. et al. (2004) J Biol Chem 279, 41512-20. 7. Luo, M. et al. (2005) J Biol Chem 280, 40609-16. 8. Werz, O. et al. (2002) FASEB J 16, 1441-3. 9. Werz, O. et al. (2002) J Biol Chem 277, 14793-800.

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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