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anti-Glycogen Synthase 1 antibody (pSer645)



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Quantity:	100 μL
Target:	Glycogen Synthase 1 (GYS1)
Binding Specificity:	pSer645
Reactivity:	Rat, Dog
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glycogen Synthase 1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human Glycogen synthase 1 around the phosphorylation site of Ser645
Isotype:	IgG
Cross-Reactivity:	Dog, Rat
Predicted Reactivity:	Human,Mouse,Sheep,Pig,Horse
Purification:	Purified by Protein A.

Target Details

	Glycogen Synthase 1 (GYS1)	
Alternative Name:	Glycogen synthase 1 (GYS1 Products)	
Background:	Synonyms: Glycogen synthase 1 phospho S645, Glycogen synthase 1 phospho Ser645, p-	
	Glycogen synthase 1 S645, Glycogen synthase 1 muscle, Glycogen synthase 1, GSY, GYS,	
	GYS1, EC 2.4.1.11, Glycogen synthase1, GYS 1, Starchsynthase muscle, UDP glucose glycogen	
	glucosyltransferase, GYS1_HUMAN, Glycogen [starch] synthase, muscl.	
	Background: Glycogen Synthase (GS) is a key enzyme in the regulation of glycogen	
	metabolism. GS catalyzes the incorporation of UDP-glucose incorporation into glycogen. The	
	activity of glycogen synthase is regulated by hormonal stimuli (insulin, catecholamines and	
	glucagons) and non-hormonal stimuli (blood glucose level and exercise). Two main isoforms of	
	mammalian GS are designated as muscle (glycogen synthase 1) and liver (glycogen synthase	
	2). Most tissues express glycogen synthase 1, whereas glycogen synthase 2 appears to be	
	tissue-specific. The two isoforms have 70 % identical amino acid sequence. Glycogen synthase	
	can be phosphorylated by multiple kinases including glycogen synthase kinase-3 (GSK-3),	
	mitogen-activated protein kinase-related protein kinase (DYRK), and SAPK2b/p38b which leads	
	to its inactivation.	
Pathways:	PI3K-Akt Signaling, AMPK Signaling, Cellular Glucan Metabolic Process	
Application Details		
Application Notes:	WB 1:300-5000	
Application Notes:	WB 1:300-5000 ELISA 1:500-1000	
Application Notes:		
Application Notes:	ELISA 1:500-1000	
Application Notes:	ELISA 1:500-1000 IHC-P 1:200-400	
Application Notes:	ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500	
Application Notes:	ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200	
Application Notes:	ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200	
Application Notes:	ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200	
	ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500	
Restrictions:	ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500	
Restrictions: Handling	ELISA 1:500-1000 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 ICC 1:100-500 For Research Use only	

Handling

Preservative:	ProClin	
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.	
Storage:	4 °C,-20 °C	
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.	
Expiry Date:	12 months	