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Datasheet for ABIN872292 anti-LATS1 antibody (pThr1079)

1 Image

2 Publications



Overview

Quantity:	100 μL	
Target:	LATS1	
Binding Specificity:	pThr1079	
Reactivity:	Human, Mouse	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This LATS1 antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Paraffin- embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))	

Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human LATS1 around the phosphorylation site of Thr1079	
Isotype:	lgG	
Specificity:	This sequence will cross react with LATS2 if phosphorylated at Thr1041	
Cross-Reactivity:	Human, Mouse	
Predicted Reactivity:	Rat,Dog,Cow,Pig,Horse,Chicken,Rabbit	
Purification:	Purified by Protein A.	

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Target:	LATS1
Alternative Name:	LATS1 (LATS1 Products)
Background:	Synonyms: wts, WARTS, Serine/threonine-protein kinase LATS1, Large tumor suppressor
	homolog 1, WARTS protein kinase, h-warts, LATS1
	Background: Negative regulator of YAP1 in the Hippo signaling pathway that plays a pivotal role
	in organ size control and tumor suppression by restricting proliferation and promoting
	apoptosis. The core of this pathway is composed of a kinase cascade wherein STK3/MST2 and
	STK4/MST1, in complex with its regulatory protein SAV1, phosphorylates and activates
	LATS1/2 in complex with its regulatory protein MOB1, which in turn phosphorylates and
	inactivates YAP1 oncoprotein and WWTR1/TAZ. Phosphorylation of YAP1 by LATS1 inhibits its
	translocation into the nucleus to regulate cellular genes important for cell proliferation, cell
	death, and cell migration. Acts as a tumor suppressor which plays a critical role in maintenance
	of ploidy through its actions in both mitotic progression and the G1 tetraploidy checkpoint.
	Negatively regulates G2/M transition by down-regulating CDK1 kinase activity. Involved in the
	control of p53 expression. Affects cytokinesis by regulating actin polymerization through
	negative modulation of LIMK1. May also play a role in endocrine function.
Gene ID:	9113
UniProt:	095835
Pathways:	Regulation of Actin Filament Polymerization, Maintenance of Protein Location

Application Details

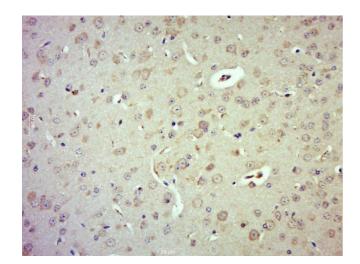
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200
Restrictions:	For Research Use only
Handling	
Format:	Liquid

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Concentration:	1 μg/μL	
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.	
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	
Publications		
Product cited in:	Moon, Lee, Lee, Lee, Park, Park, Chang, Park, Choi: "STK3/4 Expression Is Regulated in Uterine	
	Endometrial Cells during the Estrous Cycle." in: Cells , Vol. 8, Issue 12, (2020) (PubMed).	
	Grijalva, Huizenga, Mueller, Rodriguez, Brazzo, Camargo, Sadri-Vakili, Vakili: "Dynamic	
	alterations in Hippo signaling pathway and YAP activation during liver regeneration." in:	
	American journal of physiology. Gastrointestinal and liver physiology, Vol. 307, Issue 2, pp.	
	G196-204, (2014) (PubMed).	

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Paraformaldehyde-fixed, paraffin embedded mouse brain; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with LATS1 (Thr1079) Polyclonal Antibody (bs-7913R) at 1:400 overnight at 4°C, followed by a conjugated secondary for 20 minutes and DAB staining.

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