

LATS1/LATS2 Polyclonal Antibody

Catalog NumberPA5-39741

Product data sheet

Details		Species Reactivity	
Size	100 µg	Published species	Mouse
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Immunohistochemistry (Paraffin) (IHC (P))	Dilution *1:50-1:100
Type	Antibody	Published Applications	
Immunogen	A synthetic peptide derived from the internal region of human LATS1/2	Flow Cytometry (Flow)	See 1 publications below
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	1 mg/mL		
Storage Conditions	-20°C		

Background/Target Information

The protein encoded by this gene is a putative serine/threonine kinase that localizes to the mitotic apparatus and complexes with cell cycle controller CDC2 kinase in early mitosis. The protein is phosphorylated in a cell-cycle dependent manner, with late prophase phosphorylation remaining through metaphase. The N-terminal region of the protein binds CDC2 to form a complex showing reduced H1 histone kinase activity, indicating a role as a negative regulator of CDC2/cyclin A. In addition, the C-terminal kinase domain binds to its own N-terminal region, suggesting potential negative regulation through interference with complex formation via intramolecular binding. Biochemical and genetic data suggest a role as a tumor suppressor. This is supported by studies in knockout mice showing development of soft-tissue sarcomas, ovarian stromal cell tumors and a high sensitivity to carcinogenic treatments.

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PubMed References For LATS1/LATS2 Polyclonal Antibody

1 Flow Cytometry References

Species / Dilution	Summary
	PA5-39741 was used in Flow cytometry/Cell sorting to find that interleukin-6- and STAT3 transcription factor-dependent upregulation of Notch4 receptor on lung tissue regulatory T (Treg) cells is necessary for allergens and particulate matter pollutants to promote airway inflammation.
Mouse / Not Cited	<p>Nature immunology (2020; 21: 1359)</p> <p>"A regulatory T cell Notch4-GDF15 axis licenses tissue inflammation in asthma."</p> <p>Author(s):Harb H,Stephen-Victor E,Crestani E,Benamar M,Massoud A,Cui Y,Charbonnier LM,Arbag S,Baris S,Cunnigham A,Leyva-Castillo JM,Geha RS,Mousavi AJ,Guennewig B,Schmitz-Abe K,Sioutas C,Phipatanakul W,Chatila TA</p> <p>PubMed Article URL:http://dx.doi.org/10.1038/s41590-020-0777-3</p>

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