

LATS1 Recombinant monoclonal antibody, PBS Only (Detector)

Catalog Number: 80613-2-PBS

Basic Information

Catalog Number: 80613-2-PBS	GenBank Accession Number: BC015665	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 9113	CloneNo.: 252021E3
Source: Rabbit	UNIPROT ID: Q6PJG3	
Isotype: IgG	Full Name: LATS, large tumor suppressor, homolog 1 (Drosophila)	
Immunogen Catalog Number: AG11140	Calculated MW: 15 kDa, 127 kDa	
	Observed MW: 140 kDa	

Applications

Tested Applications:
WB, Sandwich ELISA, Indirect ELISA

Species Specificity:
human, mouse, rat

Product Information

80613-2-PBS targets LATS1 as part of a matched antibody pair:

MP02921-1: 80613-3-PBS capture and 80613-2-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

LATS1 (Large tumor suppressor homolog 1) is also named as WARTS and belongs to the AGC Ser/Thr protein kinase family. The gene encodes a highly conserved (from fly to human) protein kinase that plays a crucial role in the prevention of tumor formation by controlling the progression of mitosis. The expression of both long (170 kDa) and short lats1 isoforms (120 kDa) in vertebrate retinal cells raises the possibility that these lats1 proteins may act as negative key regulators of the cell cycle each of them performing a unique role (PMID:15777619). In mammalian cells, LATS1 was phosphorylated in a cell cycle-dependent manner and complexed with CDC2 in early mitosis (PMID:9988268).

Storage

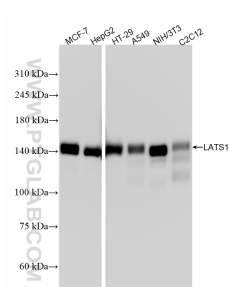
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

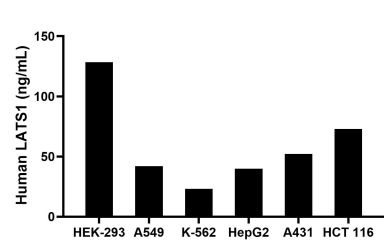
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

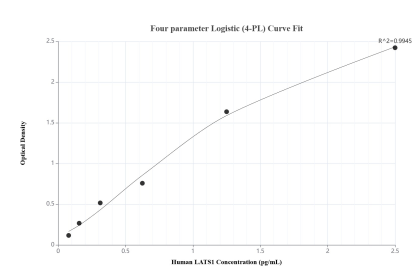
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 80613-2-RR (LATS1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 80613-2-PBS in a different storage buffer formulation.



The mean LATS1 concentration was determined to be 128.4 ng/mL in HEK-293 cell extract based on a 1.2 mg/mL extract load, 42.1 ng/mL in A549 cell extract based on a 1.2 mg/mL extract load, 23.1 ng/mL in K-562 cell extract based on a 1.2 mg/mL extract load, 40.0 ng/mL in HepG2 cell extract based on a 1.2 mg/mL extract load, 52.2 ng/mL in A431 cell extract based on a 1.2 mg/mL extract load and 72.9 ng/mL in HCT 116 cell extract based on a 1.3 mg/mL extract load.



Sandwich ELISA standard curve of MP02921-1, Human LATS1 Recombinant Matched Antibody Pair - PBS only. 80613-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag11140. 80613-2-PBS was HRP conjugated as the detection antibody. Range: 78.1-2500 pg/mL.