

For Research Use Only

SLPI Polyclonal antibody

Catalog Number: 32205-1-AP



Basic Information

Catalog Number:

32205-1-AP

Size:

150ul, Concentration: 700 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG36523

GenBank Accession Number:

BC020708

GeneID (NCBI):

6590

UNIPROT ID:

P03973

Full Name:

secretory leukocyte peptidase inhibitor

Calculated MW:

14 kDa

Observed MW:

14 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

Applications

Tested Applications:

WB, IP, ELISA

Species Specificity:

human

Positive Controls:

WB : human saliva,

IP : HeLa cells,

Background Information

Secretory leukocyte protease inhibitor (SLPI) is also named as Antileukoproteinase (ALP), BLPI, HUSI-1, WAP4, WFDC4 and mucus proteinase inhibitor (MPI). The SLPI is a multifunctional protein involved in the modulation of immunological response and the inhibition of protease activities. SLPI acts as an inhibitor of proteases, exerts antibacterial properties, and suppresses the transcription of proinflammatory genes through the nuclear factor-kappa B (NF- κ B) pathway (PMID: 37356220). SLPI is as a serine protease inhibitor and also as a critical mediator that is involved in the PTH-mediated shift to the osteoblastic phase (PMID: 17474882). SLPI induction in osteoblasts enhances its differentiation, and increases osteoblast-osteoclast contact, thereby suppressing osteoclastic function (PMID: 17474882). SLPI is an evolutionarily conserved, pleiotropic protein expressed at mucosal surfaces, mainly by epithelial cells (PMID: 33602652). SLPI maintains homeostasis at barrier tissues by preventing tissue destruction and regulating the threshold of inflammatory immune responses, while protecting the host from infection. However, as recent studies demonstrate that overexpression of SLPI increases the metastatic potential of epithelial tumors (PMID: 33602652). The role of this protein as a regulatory agent has been implicated in various types of cancer (PMID: 37356220).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

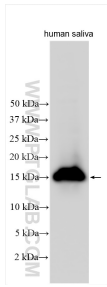
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

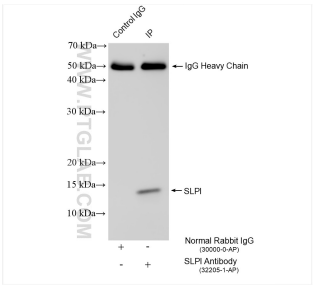
E: proteintech@ptglab.com
W: ptglab.com

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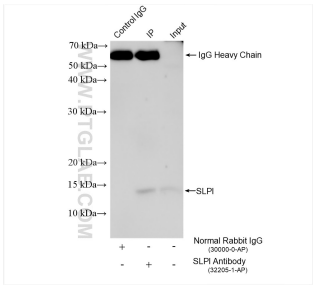
Selected Validation Data



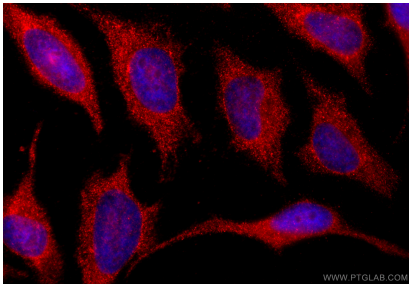
Various lysates were subjected to SDS PAGE followed by western blot with 32205-1-AP (SLPI antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



IP result of anti-SLPI (IP:32205-1-AP, 4ug; Detection:32205-1-AP 1:800) with HeLa cells lysate 1200 ug.



IP result of anti-SLPI (IP:32205-1-AP, 4ug; Detection:32205-1-AP 1:800) with HeLa cells lysate 1200 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using SLPI antibody (32205-1-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).