

For Research Use Only

BPIL1 Polyclonal antibody

Catalog Number: 13461-2-AP **3 Publications**



Basic Information

Catalog Number: 13461-2-AP	GenBank Accession Number: BC034415	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 600 ug/ml by Nanodrop and 353 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 80341	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	UNIPROT ID: Q8N4F0	IHC 1:800-1:3200
Isotype: IgG	Full Name: bactericidal/permeability-increasing protein-like 1	IF/ICC 1:200-1:800
Immunogen Catalog Number: AG4051	Calculated MW: 458 aa, 49 kDa	
	Observed MW: 49 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IHC	WB : A549 cells, HeLa cells, HepG2 cells, mouse testis tissue, rat testis tissue
Species Specificity: human, mouse, rat	IHC : human tonsillitis tissue,
Cited Species: human	IF/ICC : A549 cells,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Bactericidal/permeability-increasing protein-like 1 (BPIL1, also known as LPLUNC2 or BPIFB2) is a member of the lipid transfer (LT)/lipopolysaccharide binding protein (LBP) family. LT/LBP proteins are structurally related proteins capable of binding phospholipids and lipopolysaccharides (PMID: 12185532). The gene of BPIL1 maps to Chromosome 20q11, and encodes a 458-amino acid protein with a calculated molecular weight of 49 kDa. It is highly expressed in hypertrophic tonsils. BPIL1 has been identified as a nasal mucous protein that may be involved in immune response in the nose against microbial infections (PMID: 15996010). Reduced expression of antimicrobial PLUNC proteins (LPLUNC1 and LPLUNC2) has been reported in nasal polyp tissues of patients with chronic rhinosinusitis (PMID: 22676062).

Notable Publications

Author	Pubmed ID	Journal	Application
Yanran Huang	33506054	J Immunol Res	IHC
Foster Matthew W MW	23550723	J Proteome Res	WB
Seshadri S S	22676062	Allergy	WB,IHC

Storage

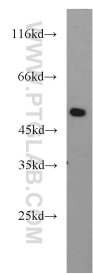
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

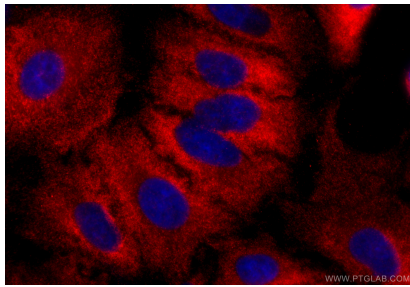
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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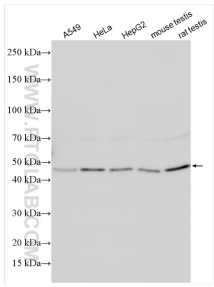
Selected Validation Data



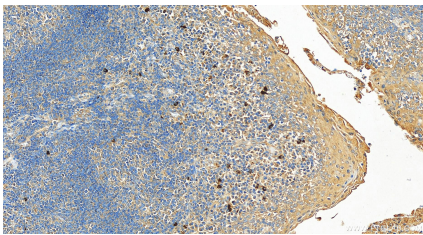
A549 cells were subjected to SDS PAGE followed by western blot with 13461-2-AP (BPIL1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed A549 cells using BPIL1 antibody (13461-2-AP) at dilution of 1:400 and CoraLite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4).



Various lysates were subjected to SDS PAGE followed by western blot with 13461-2-AP (BPIL1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 13461-2-AP (BPIL1 antibody) at dilution of 1:1600 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).