

For Research Use Only

# BPIL1 Polyclonal antibody

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



## Basic Information

<b>Catalog Number:</b> 13461-2-AP	<b>GenBank Accession Number:</b> BC034415	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop and 353 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 80341	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:20-1:200 IF 1:20-1:200
<b>Source:</b> Rabbit	<b>Full Name:</b> bactericidal/permeability-increasing protein-like 1	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 458 aa, 49 kDa	
<b>Immunogen Catalog Number:</b> AG4051	<b>Observed MW:</b> 49 kDa	

## Applications

<b>Tested Applications:</b> IF, IHC, WB, ELISA	<b>Positive Controls:</b> WB : A549 cells,
<b>Cited Applications:</b> IHC, WB	<b>IHC :</b> human lung cancer tissue, human tonsillitis tissue
<b>Species Specificity:</b> human	<b>IF :</b> A549 cells,
<b>Cited Species:</b> human	

**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 which 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

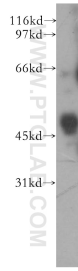
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

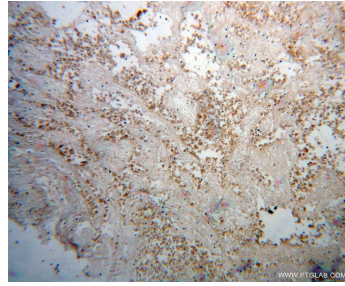
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

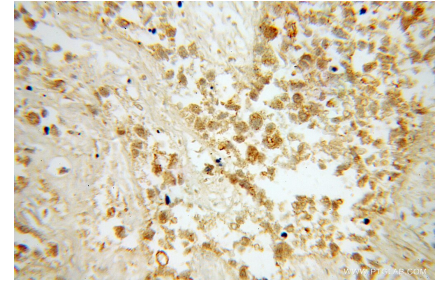
## Selected Validation Data



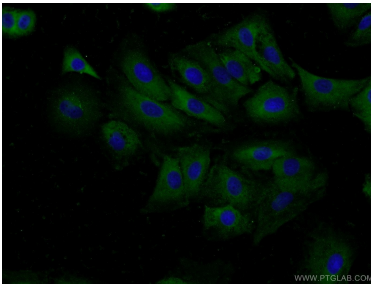
A549 cells were subjected to SDS PAGE followed by western blot with 13461-2-AP (BPIL1 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lung cancer using 13461-2-AP (BPIL1 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human lung cancer using 13461-2-AP (BPIL1 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of A549 cells using 13461-2-AP (BPIL1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).