For Research Use Only

BPIL1 Polyclonal antibody

Catalog Number:13461-2-AP 3 Publications

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Basic Information

Catalog Number:
13461-2-AP

Size:
150ul , Concentration: 600 µg/ml by Nanodrop and 353 µg/ml by Bradford method using BSA as the standard;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG4051

GenBank Accession Number:
BC034415

GeneID (NCBI):
80341

UNIPROT ID:
Q8N4F0

Full Name:
bactericidal/permeability-increasing protein-like 1

Calculated MW:
458 aa, 49 kDa

Observed MW:
49 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IHC 1:20-1:200
IF/ICC 1:20-1:200

Applications

Tested Applications:
WB, IF, IHC, ELISA

Cited Applications:
WB, IHC

Species Specificity:
human

Cited Species:
human

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

Positive Controls:

WB : A549 cells,

IHC : human lung cancer tissue, human tonsillitis tissue

IF/ICC : A549 cells,

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

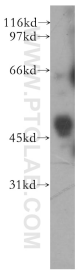
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

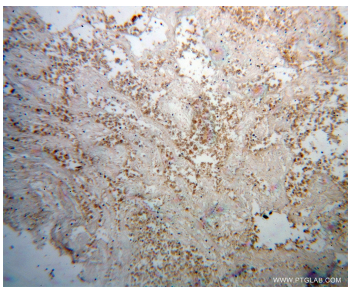
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

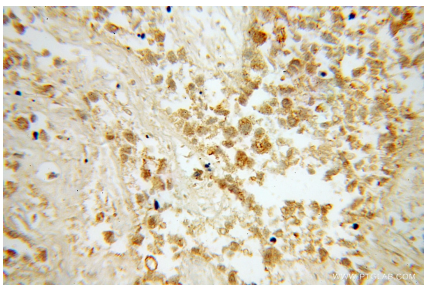
Selected Validation Data



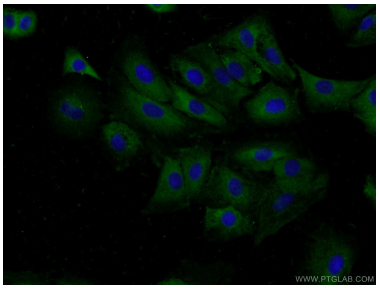
A549 cells were subjected to SDS PAGE followed by western blot with 13461-2-AP (BPIL1 antibody) at dilution of 1:400 incubated at room temperature for 1.5 hours.



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).