

# IL-28A Monoclonal antibody, PBS Only (Capture)

Catalog Number: 60270-1-PBS

## Basic Information

<b>Catalog Number:</b> 60270-1-PBS	<b>GenBank Accession Number:</b> BC113583	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 100ug , Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 282616	<b>CloneNo.:</b> 3B4A1
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q8IZJ0	<b>Affinity:</b> $K_D = 1.77 \times 10^9 M$
<b>Isotype:</b> IgG1	<b>Full Name:</b> interleukin 28A (interferon, lambda 2)	$K_{off} = 4.10 \times 10^{-5} M$ $K_{on} = 2.31 \times 10^4 M$
<b>Immunogen Catalog Number:</b> AG18525	<b>Calculated MW:</b> 200 aa, 22 kDa	

## Applications

**Tested Applications:**  
IHC, IF-P, Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
human

## Product Information

60270-1-PBS targets IL-28A as part of a matched antibody pair.

MP50008-1: 60270-1-PBS capture and 68669-1-PBS detection (validated in Sandwich ELISA)

Unconjugated mouse monoclonal antibody pair in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation.

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

IL28A, also named as IFNL2 and ZCYT020, is a cytokine with immunomodulatory activity. It up-regulates MHC class I antigen expression. IL28A is a ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IFNLR1. The ligand/receptor complex seems to signal through the Jak-STAT pathway. It plays a significant role in the antiviral immune defense in the intestinal epithelium.

## Storage

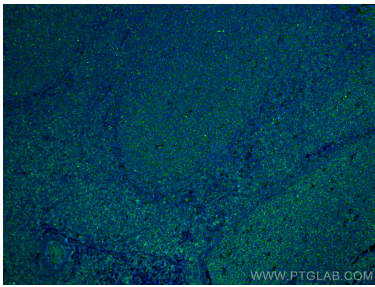
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS only, pH7.3

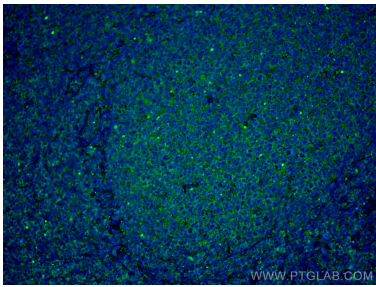
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

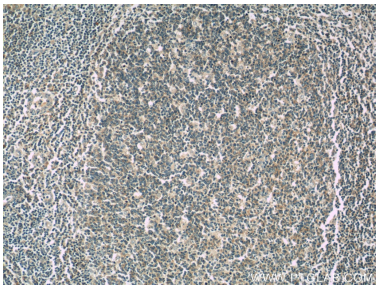
Selected Validation Data



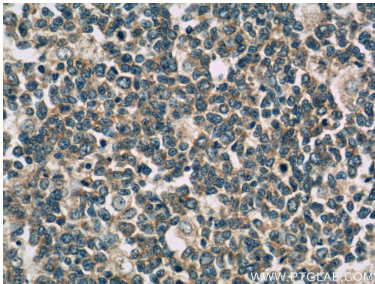
Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using IL-28A antibody (60270-1-Ig, Clone: 3B4A1) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). This data was developed using the same antibody clone with 60270-1-PBS in a different storage buffer formulation.



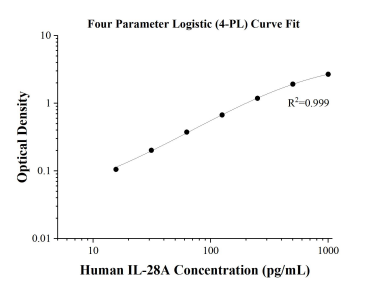
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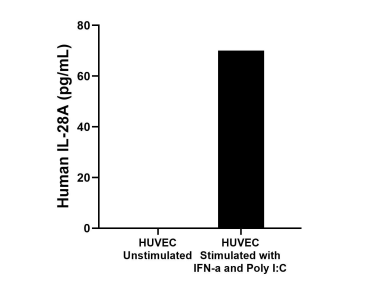
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 60270-1-Ig (IL-28A antibody at dilution of 1:50 (under 10x lens). This data was developed using the same antibody clone with 60270-1-PBS in a different storage buffer formulation.



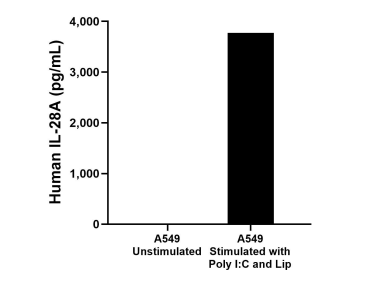
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 60270-1-Ig (IL-28A antibody at dilution of 1:50 (under 40x lens). This data was developed using the same antibody clone with 60270-1-PBS in a different storage buffer formulation.



Sandwich ELISA standard curve of MP50008-1, IL-28A Monoclonal Matched Antibody Pair - PBS only. 60270-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard HZ-1235. 68669-1-PBS was HRP conjugated as the detection antibody. Range: 15.6-1000 pg/mL



HUVEC cells were cultured unstimulated or stimulated with 100 ng/mL IFN-a and 10 µg/mL Poly I:C for 3 hours. The mean IL-28A concentration was undetectable in unstimulated supernatant, 70.0 pg/mL in stimulated supernatant.



A549 cells were cultured unstimulated or stimulated with 10 µg/mL Poly I:C and 5 µg/mL Lip for 1 day. The mean IL-28A concentration was undetectable in unstimulated supernatant, 3,774.2 pg/mL in stimulated supernatant.