

For Research Use Only

# CD247 Polyclonal antibody, PBS Only

Catalog Number:12837-2-PBS



## Basic Information

<b>Catalog Number:</b> 12837-2-PBS	<b>GenBank Accession Number:</b> BC025703	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 919	
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P20963	
<b>Isotype:</b> IgG	<b>Full Name:</b> CD247 molecule	
<b>Immunogen Catalog Number:</b> AG3889	<b>Calculated MW:</b> 16 kDa	
	<b>Observed MW:</b> 16 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, IP, Indirect ELISA

**Species Specificity:**  
human, mouse, rat

## Background Information

CD247, also known as CD3Z (T-cell surface glycoprotein CD3 zeta chain), belongs to the CD3Z/FCER1G family. CD3 is a complex of proteins that directly associates with the T cell receptor (TCR). The TCR/CD3 complex of T-lymphocytes consists of either a TCR alpha/beta or TCR gamma/delta heterodimer coexpressed at the cell surface with the invariant subunits of CD3 labeled gamma, delta, epsilon, zeta, and eta. The TCR recognizes antigens bound to major histocompatibility complex (MHC) molecules. TCR-mediated peptide-MHC recognition is transmitted to the CD3 complex, leading to the intracellular signal transduction. CD3 is considered to be a pan-T cell marker for detection of normal and neoplastic T cells.

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

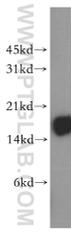
T: 4006900926

E: Proteintech-CN@ptglab.com

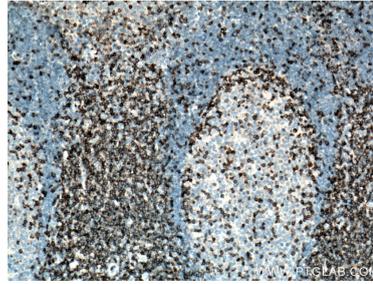
W: ptgcn.com

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

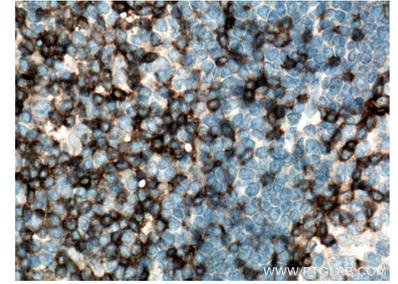
## Selected Validation Data



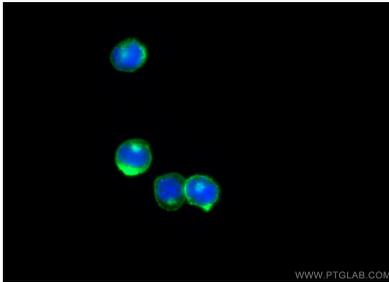
Jurkat cells were subjected to SDS PAGE followed by western blot with 12837-2-AP (CD247 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12837-2-PBS in a different storage buffer formulation.



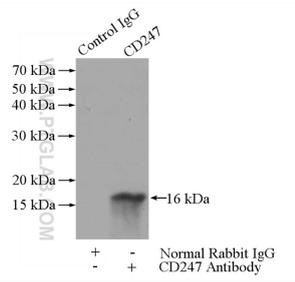
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12837-2-AP (CD247 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12837-2-PBS in a different storage buffer formulation.



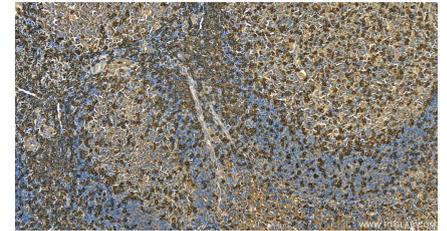
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12837-2-AP (CD247 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12837-2-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed Jurkat cells using 12837-2-AP (CD247 antibody), at dilution of 1:200 and CoralLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). This data was developed using the same antibody clone with 12837-2-PBS in a different storage buffer formulation.



IP result of anti-CD247 (IP:12837-2-AP, 3ug; Detection:12837-2-AP 1:700) with Jurkat cells lysate 1200ug. This data was developed using the same antibody clone with 12837-2-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 12837-2-AP (CD247 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12837-2-PBS in a different storage buffer formulation.