

# CD3 Polyclonal ANTIBODY

Catalog Number: 17617-1-AP

12 Publications

## Basic Information

**Catalog Number:**  
17617-1-AP

**Size:**  
34 µg/150 µl

**Source:**  
Rabbit

**Isotype:**  
IgG

**Purification Method:**  
Antigen affinity purification

**Immunogen Catalog Number:**  
AG11797

**GenBank Accession Number:**  
BC049847

**GeneID (NCBI):**  
916

**Full Name:**  
CD3e molecule, epsilon (CD3-TCR complex)

**Calculated MW:**  
207aa, 23 kDa

**Observed MW:**  
23 kDa

**Recommended Dilutions:**

WB 1:500-1:3000

IP 0.5-4.0 µg for IP and 1:500-1:2000 for WB

IHC 1:20-1:200

## Applications

**Tested Applications:**

FC, IHC, IP, WB, ELISA

**Cited Applications:**

IF, IHC, WB

**Species Specificity:**  
human, pig

**Cited Species:**  
human, pig

**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 : Jurkat cells; human spleen tissue, pig spleen tissue

IP : Jurkat cells;

IHC : human tonsillitis tissue; human lung cancer tissue, human lymphoma tissue

## Background Information

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. This anti-CD3 is a polyclonal antibody directed against the epsilon chain of human CD3 molecule.

## Notable Publications

Author	Pubmed ID	Journal	Application
Fan Zou	31511513	Nat Commun	IHC
Zhihua Wang	31190784	Int J Chron Obstruct Pulmon Dis	IF
Shengyang He	29780331	Front Physiol	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

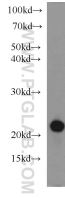
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

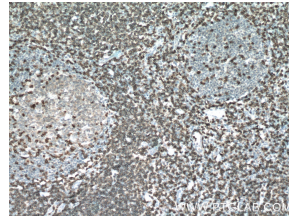
E: proteintech@ptglab.com  
W: ptglab.com

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

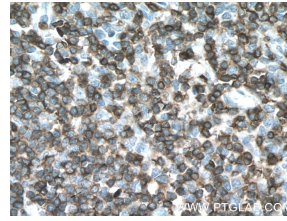
## Selected Validation Data



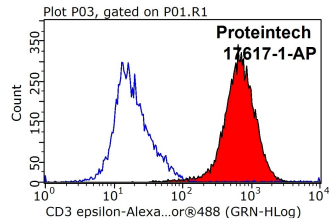
Jurkat cells were subjected to SDS PAGE followed by western blot with 17617-1-AP(CD3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours



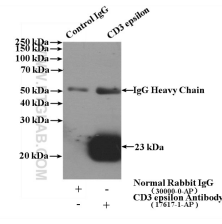
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 17617-1-AP CD3 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieved with Tris-EDTA buffer, pH9.0



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 17617-1-AP CD3 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieved with Tris-EDTA buffer, pH9.0



1X10<sup>6</sup> Jurkat cells were stained with 0.5ug CD3 antibody (17617-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



IP Result of anti-CD3 (IP:17617-1-AP, 4ug; Detection:17617-1-AP 1:1000) with Jurkat cells lysate 3600ug.