

## CD3 Gamma Polyclonal antibody

Catalog Number: 21120-1-AP

2 Publications

## Basic Information

## Catalog Number:

21120-1-AP

## Size:

150ul, Concentration: 600 µg/ml by Nanodrop and 387 µg/ml by Bradford method using BSA as the standard;

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG15475

## GenBank Accession Number:

BC113830

## GeneID (NCBI):

917

## Full Name:

CD3g molecule, gamma (CD3-TCR complex)

## Calculated MW:

182 aa, 20 kDa

## Observed MW:

20-25 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 µg for IP and 1:500-1:1000 for WB

IHC 1:50-1:500

## Applications

## Tested Applications:

FC, IHC, IP, WB, ELISA

## Cited Applications:

IHC

## Species Specificity:

human, mouse, rat

## Cited Species:

human

## Positive Controls:

WB: mouse thymus tissue, Jurkat cells

IP: mouse thymus tissue,

IHC: human tonsillitis tissue, human lymphoma tissue

**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

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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Sohji Nishina	30510994	Cell Mol Gastroenterol Hepatol	IHC
Shogo Tsuji	37045472	Life Sci Alliance	

## 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

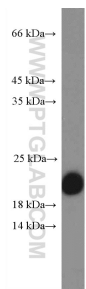
For technical support and original validation data for this product please contact:

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

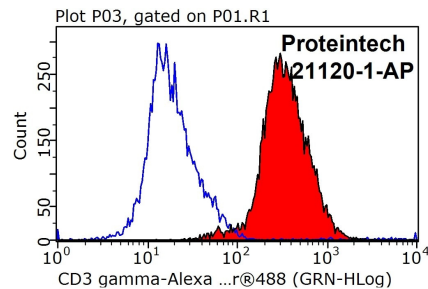
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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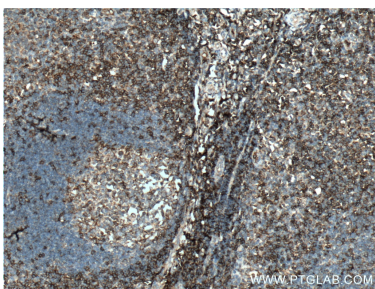
Selected Validation Data



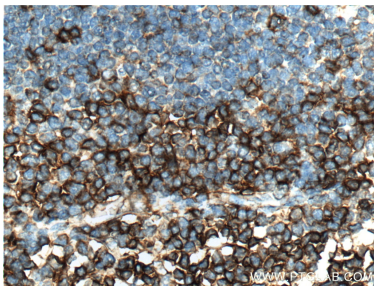
mouse thymus tissue were subjected to SDS PAGE followed by western blot with 21120-1-AP (CD3 gamma antibody at dilution of 1:1000 incubated at room temperature for 1.5 hours.



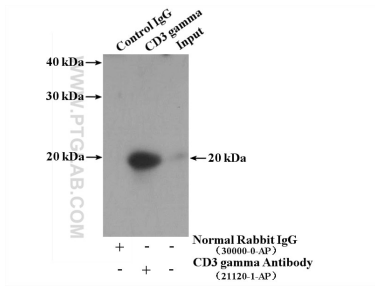
1X10<sup>6</sup> Jurkat cells were stained with 0.5ug CD3 gamma antibody (21120-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 21120-1-AP (CD3 gamma antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 21120-1-AP (CD3 gamma antibody at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-CD3 gamma (IP:21120-1-AP, 4ug; Detection:21120-1-AP 1:600) with mouse thymus tissue lysate 2800ug.