

For Research Use Only

CD3 Gamma Polyclonal antibody

Catalog Number: 21120-1-AP **3 Publications**



Basic Information

| | | |
|---------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Catalog Number: 21120-1-AP | GenBank Accession Number: BC113830 | Purification Method: Antigen affinity purification |
| Size: 600 µg/ml | GeneID (NCBI): 917 | Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: P09693 | |
| Isotype: IgG | Full Name: CD3g molecule, gamma (CD3-TCR complex) | |
| Immunogen Catalog Number: AG15475 | Calculated MW: 182 aa, 20 kDa | |
| | Observed MW: 20-25 kDa | |

Applications

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tested Applications: WB, IP, IHC, ELISA | Positive Controls: WB : Jurkat cells, mouse thymus tissue, MOLT-4 cells IP : mouse thymus tissue, IHC : human tonsillitis tissue, human lymphoma tissue |
| Cited Applications: IHC | |
| Species Specificity: human, mouse, rat | |
| Cited Species: human, mouse | |
| 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 |
| Weihui Kong | 38751816 | Front Oncol | IHC |
| Shogo Tsuji | 37045472 | Life Sci Alliance | |

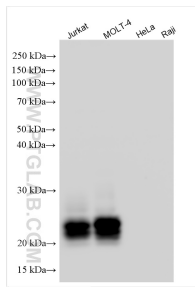
Storage

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

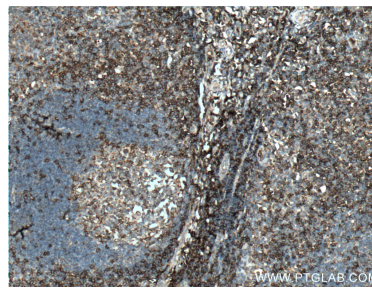
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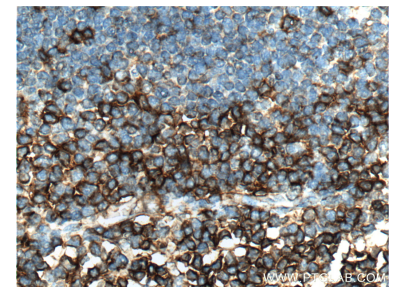
Selected Validation Data



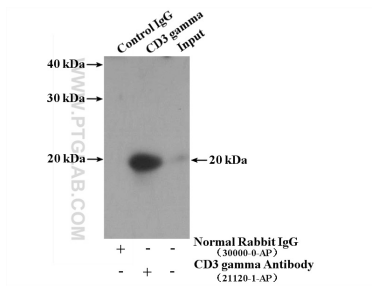
Various lysates were subjected to SDS PAGE followed by western blot with 21120-1-AP (CD3 Gamma antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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.