CD3 Polyclonal ANTIBODY

Catalog Number: 17617-1-AP

Basic Information

Catalog Number: 17617-1-AP

GenBank Accession Number: BC046897

GeneID (NCBI): 916

Recommended Dilutions:

WB: 1:500-1:3000
IP: 0.5-4.0 ug for IP and 1:1000-1:2000 for WB

IHC: 1:200

Size:

34 µg/150 µl

Source:

Rabbit

Isotype:

IgG

Purification Method:

Antigen affinity purification

Immunogen Catalog Number:

AG11797

GenBank Accession Number:

BC046897

GeneID (NCBI): 916

Calculated MW:

207aa, 23 kDa

Observed MW:

23 kDa

Applications

Tested Applications:

FC, IHC, IP, WB, ELISA

Cited Applications:

IF, IHC, WB

Species Specificity:

human, pig

Cited Species:

human, pig

Recommended Dilutions:

WB: 1:500-1:3000
IP: 0.5-4.0 ug for IP and 1:1000-1:2000 for WB

IHC: 1:200

Note-IHC: suggested antigen retrieval with

TE buffer pH 9.0; (*) Alternatively, antigen

retrieval may be performed with citrate

buffer pH 6.0

Species Specificity:

human, pig

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

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zhihua Wang</td>
<td>31190794</td>
<td>Int J Chron Obstruct Pulm Dis</td>
<td>IF</td>
</tr>
<tr>
<td>Shengyang He</td>
<td>26790331</td>
<td>Front Physiol</td>
<td>IHC</td>
</tr>
<tr>
<td>Douglas G Osborne</td>
<td>25625439</td>
<td>J Immunol</td>
<td>WB</td>
</tr>
</tbody>
</table>

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffers:

PBS with 0.05% 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:

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.
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.


1X10^6 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.