TNF Alpha Polyclonal antibody

Catalog Number: 17590-1-AP

Basic Information

Catalog Number: 17590-1-AP
Size: 150μl, Concentration: 4000 μg/ml by Nanodrop and 1333 μg/ml by Bradford method using BSA as the standard; Source: Rabbit
Isotype: IgG
Immunogen Catalog Number: AG11433
GenBank Accession Number:
BC028148
GeneID (NCBI):
7124
Full Name:
tumor necrosis factor (TNF superfamily, member 2)
Calculated MW:
233 aa, 26 kDa
Observed MW:
26 kDa
Purification Method:
Antigen affinity purification
Recommended Dilutions: WB 1:500-1:2000

Applications

Tested Applications:
WB, ELISA
Cited Applications:
Cell treatment, ELISA, Transwell Assay, WB
Species Specificity:
human, mouse
Cited Species:
fish, human, mouse, rat

Background Information

TNF, as also known as TNF-alpha, or cachectin, is a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. It is expressed as a 26 kDa membrane bound protein and is then cleaved by TNF-alpha converting enzyme (TACE) to release the soluble 17 kDa monomer, which forms homotrimers in circulation. It is produced chiefly by activated macrophages, although it can be produced by many other cell types such as CD4+ lymphocytes, NK cells, neutrophils, mast cells, eosinophils, and neurons. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer.

Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yanliang Wu</td>
<td>34601083</td>
<td>J Ethnopharmacol</td>
<td>WB</td>
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<tr>
<td>Yonggui Song</td>
<td>33007392</td>
<td>J Ethnopharmacol</td>
<td>WB</td>
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<td>Wei Chen</td>
<td>31565850</td>
<td>J Cell Mol Med</td>
<td>IHC</td>
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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.
Untreated THP-1 and THP-1 (treated with 80nM PMA overnight, replaced the culture medium with 100 ng/ml LPS for 6 hours with addition of 300ng/ml Brefeldin A for the last 3 hours) cells were subjected to SDS PAGE followed by western blot with 17590-1-AP (TNF Alpha antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.