

For Research Use Only

# TNF-alpha Polyclonal antibody

Catalog Number: 26405-1-AP

36 Publications



## Basic Information

<b>Catalog Number:</b> 26405-1-AP	<b>GenBank Accession Number:</b> BC028148	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 500 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7124	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500 IF/ICC 1:50-1:500
<b>Source:</b> Rabbit	<b>ENSEMBL Gene ID:</b> ENSG00000232810	
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P01375	
<b>Immunogen Catalog Number:</b> AG24020	<b>Full Name:</b> tumor necrosis factor (TNF superfamily, member 2)	
	<b>Calculated MW:</b> 233 aa, 26 kDa	
	<b>Observed MW:</b> 26 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, ELISA	<b>Positive Controls:</b> WB : PMA, LPS and Brefeldin A treated THP-1 cells, IHC : human ovary tumor tissue, human tonsillitis tissue IF/ICC : PMA, LPS and Brefeldin A treated THP-1 cells,
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> human, mouse, rat, rabbit	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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/TNFR2. 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

Author	Pubmed ID	Journal	Application
Yang Xu	35623314	Redox Biol	IHC
Yanling Wang	35914567	Acta Trop	IHC
Lihua Luo	35822247	Cell Prolif	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

\*\*\* 20ul sizes contain 0.1% BSA

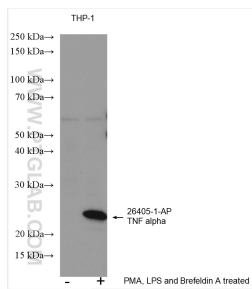
For technical support and original validation data for this product please contact:

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

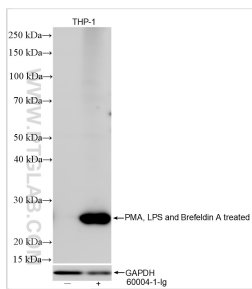
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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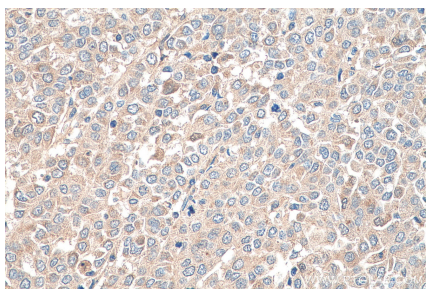
## Selected Validation Data



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 26405-1-AP (TNF alpha antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



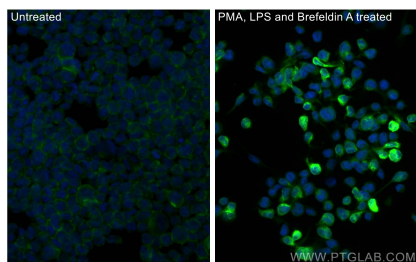
PMA, LPS, and Brefeldin A treated THP-1 cells were subjected to SDS PAGE followed by western blot with 26405-1-AP (TNF Alpha antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with GAPDH Monoclonal antibody 60004-1-Ig as loading control.



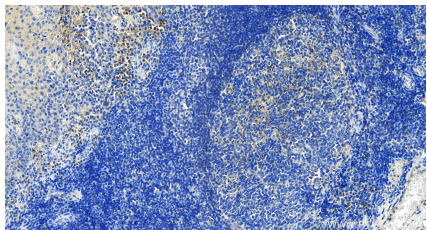
Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 26405-1-AP (TNF Alpha antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary tumor tissue slide using 26405-1-AP (TNF Alpha antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed PMA, LPS and Brefeldin A treated THP-1 cells using TNF-alpha antibody (26405-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 26405-1-AP (TNF Alpha antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).