

# TNFR1

## Polyclonal ANTIBODY

Catalog Number: 21574-1-AP

Featured Product

12 Publications

### Basic Information

Catalog Number:  
21574-1-AP

Size:  
40 µg/150 µl

Source:  
Rabbit

Isotype:  
IgG

Purification Method:  
Antigen affinity purification

Immunogen Catalog Number:  
AG16112

GenBank Accession Number:  
BC010140

GeneID (NCBI):  
7132

Full Name:  
tumor necrosis factor receptor superfamily,  
member 1A

Calculated MW:  
455aa, 50 kDa

Observed MW:  
50 kDa

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

### Applications

Tested Applications:

FC, IHC, WB, ELISA

Cited Applications:

IF, IHC, IP, WB

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

Positive Controls:

WB : Raji cells; HeLa cells, HL-60 cells, human  
brain tissue

IHC : human brain tissue; human breast cancer  
tissue

### Background Information

Tumor necrosis factor (TNF) is a multifunctional cytokine that plays a key role in regulating inflammation, immune functions, host defense, and apoptosis (PMD: 16407280). TNF exists in soluble and membrane-bound forms. TNF signals through two distinct cell surface receptors, TNFR1 (TNFRSF1A, CD120a) and TNFR2 (TNFRSF1B, CD120b). Whereas TNFR1 is widely expressed, expression of TNFR2 is limited to cells of the immune system, endothelial cells, and nerve cells (PMD: 22053109). TNFR1, which contains a death domain (DD) within its intracytoplasmic region, is thought to be the key receptor for TNF signaling (PMD: 16407280). This receptor can activate NF-kappaB, mediate apoptosis, and function as a regulator of inflammation. Antiapoptotic protein BCL2-associated athanogene 4 (BAG4/SODD) and adaptor proteins TRADD and TRAF2 have been shown to interact with this receptor, and thus play regulatory roles in the signal transduction mediated by the receptor.

### Notable Publications

Author	Pubmed ID	Journal	Application
Dongsheng Nie	26607717	Biol Reprod	WB
Xxi Chang	29170425	Sci Rep	WB
Yves Mblino	27832801	J Neuroinflammation	WB

### 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

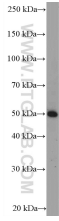
For technical support and original validation data for this  
product please contact:

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

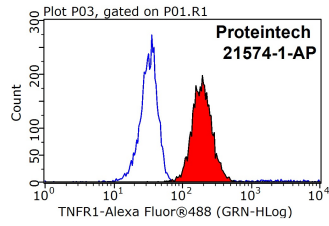
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under  
Proteintech Group brand and is not available to  
purchase from any other manufacturer.

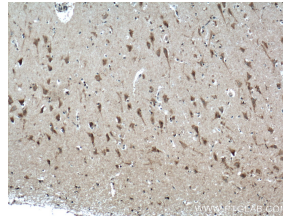
## Selected Validation Data



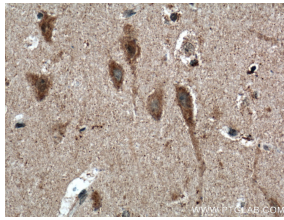
Raji cells were subjected to SDS PAGE followed by western blot with 21574-1-AP( TNFR1 Antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours



1X10<sup>6</sup> Raji cells were stained with 0.2ug TNFR1 antibody (21574-1-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 brain tissue slide using 21574-1-AP( TNFR1 antibody) at dilution of 1:200 (under 10x lens) heat mediated antigen retrieved with Tris-EDTA buffer(pH9).



Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 21574-1-AP( TNFR1 antibody) at dilution of 1:200 (under 40x lens) heat mediated antigen retrieved with Tris-EDTA buffer(pH9).