

For Research Use Only

# Pentraxin 3 Polyclonal antibody

Catalog Number: 13797-1-AP

Featured Product

25 Publications



## Basic Information

**Catalog Number:**

13797-1-AP

**Size:**

500 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG4624

**GenBank Accession Number:**

BC039733

**GeneID (NCBI):**

5806

**UNIPROT ID:**

P26022

**Full Name:**

pentraxin-related gene, rapidly induced by IL-1 beta

**Calculated MW:**

381 aa, 42 kDa

**Observed MW:**

40-45 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:2000

IF 1:10-1:100

## Applications

**Tested Applications:**

IF/ICC, WB, ELISA

**Cited Applications:**

WB, IF, IHC

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, rat, mouse, bovine

**Positive Controls:**

WB : HUVEC cells, HeLa cells, Jurkat cells, HepG2 cells

IF : HepG2 cells,

## Background Information

Pentraxin 3 (PTX3), also known as TNF-inducible gene 14 protein (TSG-14), is a member of the pentraxin superfamily which consists of evolutionarily conserved proteins characterized by a structural motif99, the pentraxin domain (PMID: 15771574). Pentraxin 3 can be produced by a variety of cell types including endothelial cells, smooth muscle cells, adipocytes, fibroblasts, mononuclear phagocytes, and dendritic cells, and its expression is induced by primary inflammatory signals, such as IL-1, TNF, and microbial moieties (PMID: 15771574). Pentraxin 3 is an acute phase glycoprotein that plays a role in the regulation of innate resistance to pathogens, inflammation, tissue remodeling and repair, female fertility and cancer (PMID: 29412047). Pentraxin 3 is a biomarker for cardiovascular disease (PMID: 22347626). Increased plasma Pentraxin 3 levels have been found in patients with cardiovascular disorders (PMID: 22347626; 31057548). In WB, there're two major bands, an upper signal at 80-86 kDa and a lower signal at 42 kDa, representing Pentraxin 3 dimers and monomers, respectively (PMID: 18223257).

## Notable Publications

Author	Pubmed ID	Journal	Application
Wan Li	36562002	Acta Pharm Sin B	WB,IHC,IF
Yijun Zhou	31780874	Mediators Inflamm	WB
Bulbul Ahmmed	30483742	Int J Oncol	WB,IF

## 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:

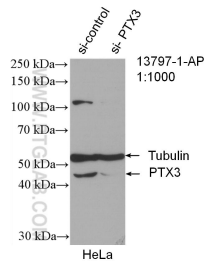
T: 4006900926

E: Proteintech-CN@ptglab.com

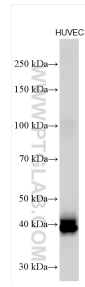
W: ptgcn.com

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

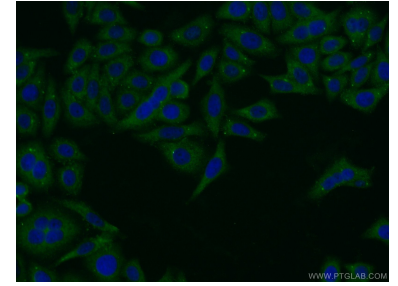
## Selected Validation Data



WB result of Pentraxin 3 antibody (13797-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Pentraxin 3 transfected HeLa cells.



HUVEC cells lysates were subjected to SDS PAGE followed by western blot with 13797-1-AP (Pentraxin 3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells using 13797-1-AP (Pentraxin 3 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).