

For Research Use Only

Pentraxin 3 Polyclonal antibody

Catalog Number: 13797-1-AP

Featured Product

23 Publications



Basic Information

| | | |
|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------|
| Catalog Number: 13797-1-AP | GenBank Accession Number: BC039733 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 500 µg/ml by Nanodrop and 253 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 5806 | Recommended Dilutions: WB 1:500-1:2000 IF 1:10-1:100 |
| Source: Rabbit | Full Name: pentraxin-related gene, rapidly induced by IL-1 beta | |
| Isotype: IgG | Calculated MW: 381 aa, 42 kDa | |
| Immunogen Catalog Number: AG4624 | Observed MW: 40-45 kDa | |

Applications

| | |
|--------------------------------------------------|----------------------------------------------------------------|
| Tested Applications: IF, WB, ELISA | Positive Controls: |
| Cited Applications: IF, IHC, WB | WB : HUVEC cells, HeLa cells, Jurkat cells, HepG2 cells |
| Species Specificity: human, mouse, rat | IF : HepG2 cells, |
| Cited Species: human, mouse, bovine | |

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

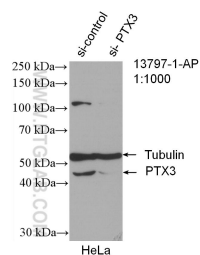
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

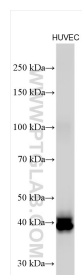
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

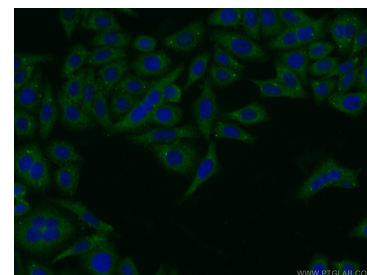
Selected Validation Data



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).