For Research Use Only

Pentraxin 3 Polyclonal antibody

Catalog Number:13797-1-AP Featured Product 24 Publications

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Basic Information

Catalog Number:
13797-1-AP

Size:
150ul , Concentration: 500 µg/ml by Nanodrop and 253 µg/ml by Bradford method using BSA as the standard;

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:
WB, IF, ELISA

Cited Applications:
WB, IF, IHC

Species Specificity:
human, mouse, rat

Cited Species:
human, 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

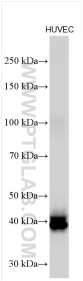
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

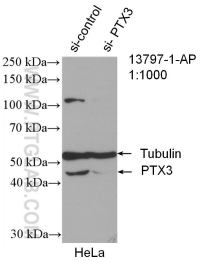
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

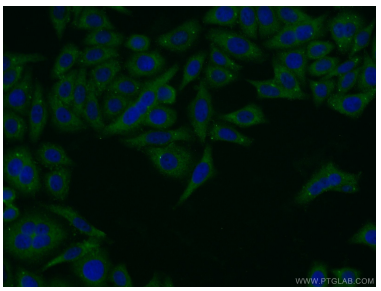
Selected Validation Data



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.



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.



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).