

For Research Use Only

# Pentraxin 3 Recombinant antibody, PBS Only (Detector)

Catalog Number:84096-3-PBS



## Basic Information

<b>Catalog Number:</b> 84096-3-PBS	<b>GenBank Accession Number:</b> NM_002852.4	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1 mg/ml	<b>GeneID (NCBI):</b> 5806	<b>CloneNo.:</b> 241393D3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P26022	
<b>Isotype:</b> IgG	<b>Full Name:</b> pentraxin-related gene, rapidly induced by IL-1 beta	
	<b>Calculated MW:</b> 42 kDa	
	<b>Observed MW:</b> 42 kDa	

## Applications

**Tested Applications:**  
WB, Cytometric bead array, Indirect ELISA

**Species Specificity:**  
human

## 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 regulating 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).

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

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

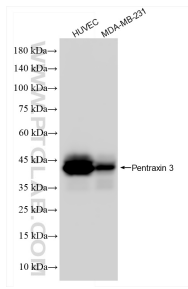
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

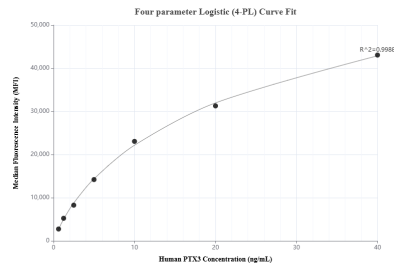
W: [ptgcn.com](http://ptgcn.com)

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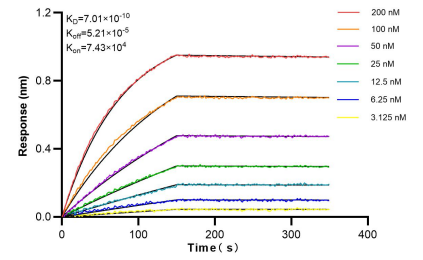
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 84096-3-RR (Pentraxin 3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84096-3-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP01014-3, PTX3 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84096-4-PBS. Detection antibody: 84096-3-PBS. Standard: Eg1303. Range: 0.625-40 ng/mL.



Bi-layer interferometry (BLI) kinetic assays of 84096-3-RR against Human Pentraxin 3 were performed. The affinity constant is 0.701 nM.