

Pentraxin 3/TSG-14 Polyclonal Antibody(Capture/Detector)

catalog number: AN000280P

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Reactivity Rat

Immunogen Recombinant Rat Pentraxin 3/TSG-14 protein expressed by E.coli

Host Rabbit
Isotype Rabbit IgG

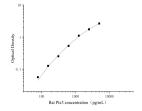
Purification Antigen Affinity Purification

Buffer Phosphate buffered solution, pH 7.2, containing 0.05% proclin 300.

Applications Recommended Dilution

ELISA Capture 2-8 μg/mL **ELISA Detector** 0.1-0.4 μg/mL

Data



Sandwich ELISA-Recombinant Rat Pentraxin 3/TSG-14 protein standard curve.Background subtracted standard curve using Pentraxin 3/TSG-14 antibody(AN000280P) (Capture),Pentraxin 3/TSG-14 antibody(AN000280P) (Detector) in sandwich ELISA.The reference range value for Recombinant Rat Pentraxin 3/TSG-14 protein is 6.86-5000 pg/mL.

Preparation & Storage

Storage Storage Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze /

thaw cycles.

Shipping The product is shipped with ice pack, upon receipt, store it immediately at the

temperature recommended.

Background

For Research Use Only

Rev. V1.6

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Pentraxin 3 (PTX3),TSG-14,was initially identified as a TNF-alpha or II-1 beta inducible gene. It belongs to the pentraxin family, which was named originally for the homo-pentameric structure formed by its members. The pentraxin family is divided into two subfamilies: the "short" and the "long" pentraxins with approximate molecular weights of 25 kDa and 50 kDa,respectively. TSG-14 is a member of the long pentraxin subfamily, which also includes the Xenopus laevis XI-PXN1, the guinea pig apexin/p50,the rat neuronal pentraxin I (NPI) and NPR, the human neuronal pentraxin II (NPTX2) and the human neuronal activity-related pentraxin. Mature secreted TSG-14 contains a pentaxin-like domain at its carboxy-terminus that shares 23-28% amino acid (aa) sequence similarity to C-reactive protein (CRP) and serum amyloid P component (SAP), which belongs to the short pentraxin subfamily. However, the N-terminal sequence of TSG-14 does not share aa sequence homology with any of the "short" pentaxins. Unlike CRP and SAP, which forms pentamers only, TSG-14 forms both pentameric and higher ordered oligomers. Similarly to CRP and SAP, TSG-14 binds to the complement cascade component C1q. However, TSG-14 does not bind to phosphoethanolamine, phosphocholine, or high pyruvate agarose, which are known ligands for CRP and SAP. TSG-14 is a marker of the acute phase response and is highly expressed in advanced atherosclerotic plaques. While CRP and SAP are primarily produced in the liver, TSG-14 expression is strongly up regulated by TNF-alpha, II-1 beta, and bacterial IPS in peripheral fibroblasts, endothelial cells, and macrophages.

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