

Datasheet for ABIN2192082

anti-PTX3 antibody

5 Publications



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Overview

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|--------------|--|
| Quantity: | 100 µg |
| Target: | PTX3 |
| Reactivity: | Human |
| Host: | Rat |
| Clonality: | Monoclonal |
| Conjugate: | This PTX3 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunoprecipitation (IP), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)), Flow Cytometry (FACS), Immunoassay (IA) |

Product Details

| | |
|------------|-----------------|
| Clone: | MNB4 |
| Sterility: | 0.2 µm filtered |

Target Details

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|-------------------|--|
| Target: | PTX3 |
| Alternative Name: | Pentraxin 3 (PTX3 Products) |
| Background: | The monoclonal antibody MNB4 (previously known as clone 20) recognizes human pentraxin 3 (PTX3), belonging to the long pentraxin family. PTX3 is an acute-phase glycoprotein of ~45 kDa with glycosylation accounting for about 10 % of its molecular weight. PTX3 has a complex oligomeric structure with protomers linked to each other by disulfide bonds. PTX3 expression is |

Target Details

triggered by inflammatory cytokines, resulting in higher levels of circulating PTX3. Several cell types have been reported to produce PTX3, namely macrophages, endothelial cells, neutrophils and synoviocytes. PTX3 is involved in host defense against pathogen infection, in the regulation of the scavenger activity of macrophages and dendritic cells, and in modulation of complement activity by binding to C1q. Furthermore, PTX3 has been implicated in matrix deposition of cumulus cells. Moreover, PTX3 interacts with other biologically active molecules, causing their functional blockade. This has been demonstrated for fibroblast growth factor-2 (FGF-2), for which PTX3 acts as an inhibitor, leading to inhibition of angiogenesis. PTX3, like other pentraxins C-reactive protein (CRP) and serum amyloid P component (SAP), binds apoptotic cells and debris. PTX3 is useful as an early indicator of myocyte irreversible injury in ischemic cardiomyopathy. PTX3 is not only involved in inflammatory vessel diseases related to atherosclerosis, but also in pre-eclampsia and systemic small vessel ANCA-associated vasculitis, in which neutrophils are key players. The relationship between tissue damage and pentraxin generation is stringent in acute injuries. PTX3 tunes self-non-self discrimination and tissue repair due to the recognition of diverse ligands by PTX3 and through regulation of effector pathways. Aliases Pentraxin-related protein PTX3, Tumor necrosis factor-inducible gene 14 protein, TSG-14 Immunogen Human recombinant PTX3

Application Details

Application Notes: For immunohistology, flow cytometry and Western blotting, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50..

Restrictions: For Research Use only

Handling

Buffer: PBS, containing 0.1 % bovine serum albumin and 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: Product should be stored at 4 °C. Under recommended storage conditions, product is stable for one year.

Expiry Date: 12 months

Publications

- Product cited in: Vetrano, Rescigno, Cera, Correale, Rumio, Doni, Fantini, Sturm, Borroni, Repici, Locati, Malesci, Dejana, Danese: "Unique role of junctional adhesion molecule-a in maintaining mucosal homeostasis in inflammatory bowel disease." in: **Gastroenterology**, Vol. 135, Issue 1, pp. 173-84, (2008) ([PubMed](#)).
- Luo, Zhuo, Fukuhara, Rizzolo: "Effects of culture conditions on heterogeneity and the apical junctional complex of the ARPE-19 cell line." in: **Investigative ophthalmology & visual science**, Vol. 47, Issue 8, pp. 3644-55, (2006) ([PubMed](#)).
- Faure, Cerini, Paul, Berland, Dignat-George, Brunet: "The uremic solute p-cresol decreases leukocyte transendothelial migration in vitro." in: **International immunology**, Vol. 18, Issue 10, pp. 1453-9, (2006) ([PubMed](#)).
- Bazzoni, Martinez-Estrada, Orsenigo, Cordenonsi, Citi, Dejana: "Interaction of junctional adhesion molecule with the tight junction components ZO-1, cingulin, and occludin." in: **The Journal of biological chemistry**, Vol. 275, Issue 27, pp. 20520-6, (2000) ([PubMed](#)).