



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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## Anti-Thrombopoietin [TN1 ] Bulk Size Ab00746-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** Human IgG1, Fc Silent™, Kappa

**Clone Number:** TN1

**Alternative Name(s) of Target:** C-mpl ligand; Megakaryocyte colony-stimulating factor; Megakaryocyte growth and development factor; TPO

**UniProt Accession Number of Target Protein:** P40225

**Published Application(s):** crystallization, neutralize, ELISA

**Published Species Reactivity:** Human

**Immunogen:** TN1 was prepared by immunizing BALB/c mice by intraperitoneal injection of recombinant human TPO. The Fab fragment was produced via incubation with papain which cleaves at the hinge region of the IgG to remove the Fc region. The product is then subsequently incubated under reducing conditions and the free Cys residue blocked with iodoacetamide.

**Specificity:** TN1 binds specifically to TPO at an epitope which consists of residues from the C-terminal end of helix C (R98) and the C-D crossover loop (residues 102-115) and residues from the C-terminal half of helix B (residues 57-61) (PMID: 14769915). TPO is a heavily glycosylated cytokine which acts as the ligand for the hematopoietic receptor c-Mpl. The primary role of TPO is as a regulator of megakaryocytopoiesis and platelet production. Stimulated c-Mpl transduces signals into target cells via the JAK/STAT, Ras and MAPK pathways.

**Application Notes:** TN1 can neutralize the biological activity of TPO and can be used to detect TPO in ELISA studies. The Fab fragment of TN1 can also be used to aid the crystallisation of TPO by increasing the area upon which stable crystal contacts can be made (PMID: 11976502).

**Antibody First Published in:** Tahara et al. A sensitive sandwich ELISA for measuring thrombopoietin in human serum: serum thrombopoietin levels in healthy volunteers and in patients with haemopoietic disorders. British Journal of Haematology 1996, 93, 783-788 [PMID:](#)

**Note on publication:** Describes the use of TN1 in the development of a reproducible, highly sensitive and specific human TPO ELISA procedure

## Product Form

**Size:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**Supplied In:** PBS only.

**Storage Recommendation:** Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

**Concentration:** 1 mg /ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.