

# NeutraControl Thrombopoietin Monoclonal antibody

Catalog Number: 69528-1-Ig

## Basic Information

Catalog Number:

69528-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

HZ-1248

GenBank Accession Number:

GeneID (NCBI):

7066

Full Name:

thrombopoietin

Purification Method:

Protein A purification

CloneNo.:

1H3G12

## Applications

Tested Applications:

Non-Neutralization, ELISA

Species Specificity:

Human

## Background Information

Thrombopoietin (TPO) is a primary regulator of megakaryocyte development and platelet production in mammals. Human TPO constitutively circulates and maintains thrombopoiesis through interaction with its cognate receptor, myeloproliferative leukemia protein (MPL). TPO also plays an important role in the maintenance and regulation of hematopoietic stem cells (HSCs).

This antibody is a neutralizing control antibody for THPO, the immunogen is the same as Neutrakine 69028-1-Ig but could not neutralize human TPO.

## Storage

Storage:

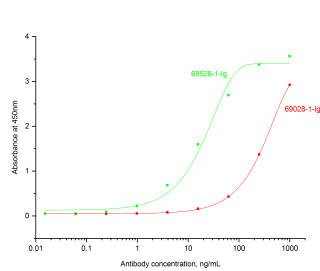
Lyophilized antibodies are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

Storage Buffer:

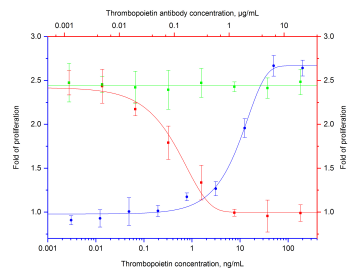
Sterile PBS.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Indirect ELISA was carried out by coating recombinant Human Thrombopoietin (Cat.NO. HZ-1248) at 70 ng/well followed by blocking and adding serial diluted Thrombopoietin antibody 69028-1-Ig and 69528-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm.



Recombinant human Thrombopoietin (Cat.NO. HZ-1248) stimulates proliferation of TF-1 cell line (human erythroleukemic cell line) in a dose-dependent manner (blue curve, refer to bottom X-left Y). The activity of human Thrombopoietin (30 ng/mL HZ-1248) is neutralized by mouse anti-human Thrombopoietin monoclonal antibody 69028-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 0.1-0.5  $\mu$ g/mL. The NeutraControl mouse anti-