For Research Use Only

# NeutraKine® EPO Mouse McAb

Catalog Number:69019-1-Ig

proteintech®
Antibodies | ELISA kits | Proteins
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## Basic Information

Catalog Number:
69019-1-Ig

Concentration:

Source:
Mouse

Isotype:
IgG1

Immunogen Catalog Number:
HZ-1168

GenBank Accession Number:

GeneID (NCBI):
2056

Full Name:
erythropoietin

Purification Method:
Protein G purification

CloneNo.:
1D2H2

## Applications

Tested Applications:
Neutralization, ELISA

Species Specificity:
human

Positive Controls:

Neutralization : TF-1 cells,

ELISA : Recombinant protein,

## Background Information

Erythropoietin (Epo) is a member of the EPO/TPO family and encodes a secreted, glycosylated cytokine composed of four alpha helical bundles. The protein is found in the plasma and regulates red cell production by promoting erythroid differentiation and initiating hemoglobin synthesis. Its effect is realized by binding erythropoietin receptor (EpoR) expressed on erythroid progenitor cells. EpoR, is a glycoprotein expressed on megakaryocytes, erythroid progenitors and endothelial cells. Epo also has neuroprotective activity against a variety of potential brain injuries and antiapoptotic functions in several tissue types.

This antibody can be used to neutralize the bioactivity of EPO.

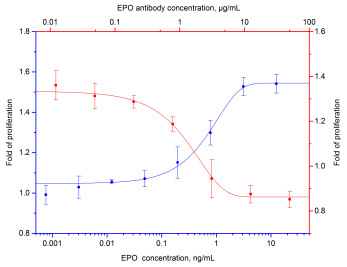
## Storage

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, pH7.4
Aliquoting is unnecessary for -20°C storage

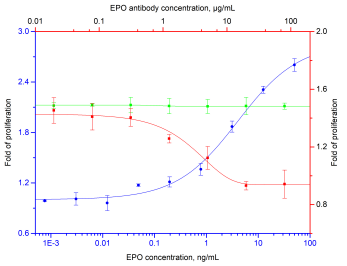
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

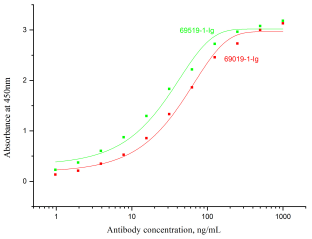
## Selected Validation Data




Recombinant human EPO (Cat.NO. HZ-1168) stimulates TF-1 cells (human erythroleukemic cell line) in a dose-dependent nammer (blue curve, refer to bottom X-left Y). The activity of human EPO (6 ng/mL HZ-1168) was neutralized by mouse anti-human EPO monoclonal antibody 69019-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 2-5 μg/mL.




Recombinant human EPO (Cat.NO. HZ-1168) stimulates TF-1 cells (human erythroleukemic cell line) in a dose-dependent nammer (blue curve, refer to bottom X-left Y). The activity of human EPO (1 ng/mL HZ-1168) was neutralized by mouse anti-human EPO monoclonal antibody 69019-1-Ig at serial dose (red curve, refer to top X-right Y). The ND50 is typically 2-5 μg/mL. The NeutraControl mouse anti-human EPO monoclonal antibody 69519-1-Ig could




Indirect ELISA was carried out by coating recombinant Human EPO (Cat.NO. HZ-1168) at 70 ng/well followed by blocking and adding serial diluted EPO antibody 69019-1-Ig and 69519-1-Ig respectively. Signal was developed with TMB and stopped by H2SO4. Signal strength was measured by absorbance at 450 nm.