

For Research Use Only

NeutraKine® EPO Monoclonal antibody



Catalog Number: 69019-1-Ig

Basic Information

Catalog Number: 69019-1-Ig	GenBank Accession Number: GeneID (NCBI): 2056	Purification Method: Protein G purification
Size: Source: Mouse	Full Name: erythropoietin	CloneNo.: 1D2H2
Isotype: IgG1		
Immunogen Catalog Number: HZ-1168		

Applications

Tested Applications:
Neutralization, ELISA

Species Specificity:
Human

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.

Aliquoting is unnecessary for -20° C storage

For technical support and original validation data for this product please contact:

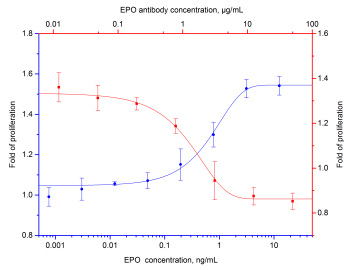
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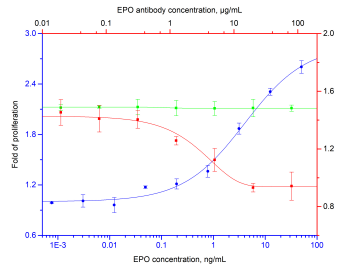
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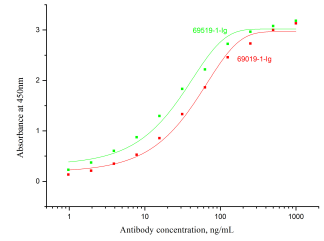
Selected Validation Data



Recombinant human EPO (Cat.NO. HZ-1168) stimulates TF-1 cells (human erythroleukemic cell line) in a dose-dependent manner (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 manner (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.