Human Erythropoietin Antibody

Monoclonal Mouse IgG_1 Clone # 9C21D11

Catalog Number: MAB287

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Erythropoietin (Epo).
Source	Monoclonal Mouse IgG_1 Clone # 9C21D11
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Erythropoietin Accession # P01588
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

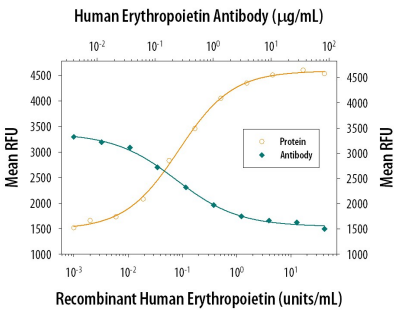
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Neutralization	Measured by its ability to neutralize Erythropoietin-induced proliferation in the TF-1 human erythroleukemic cell line. Kitamura, T. *et al.* (1989) J. Cell Physiol. **140**:323. The Neutralization Dose (ND_{50}) is typically 0.5-1.5 µg/mL in the presence of 0.3 units/mL Recombinant Human Erythropoietin (Tissue Culture Grade).

DATA

Neutralization



Cell Proliferation Induced by Erythropoietin and Neutralization by Human Erythropoietin Antibody. Recombinant Human Erythropoietin (Tissue Culture Grade) (Catalog # 287-TC) stimulates proliferation in the TF-1 human erythroleukemic cell line in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Human Erythropoietin (Tissue Culture Grade) (0.3 units/mL) is neutralized (green line) by increasing concentrations of Human Erythropoietin Monoclonal Antibody (Catalog # MAB287). The ND_{50} is typically 0.5-1.5 µg/mL.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Erythropoietin (Epo), a glycoprotein produced primarily by the kidney, is the principal factor that regulates erythropoiesis by stimulating the proliferation and differentiation of erythroid progenitor cells.