Datasheet for ABIN6174282

anti-EPO antibody (AA 28-162) (CF®488A)

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Overview

Quantity:	100 µL
Target:	EPO
Binding Specificity:	AA 28-162
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This EPO antibody is conjugated to CF®488A
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunofluorescence (IF)

Product Details

Purpose:	Mouse Monoclonal anti-Erythropoietin (EPO/1368), CF488A Conjugate
Immunogen:	Recombinant fragment of human EPO protein (aa28-162) (exact sequence is proprietary)
Clone:	EPO-1368
Isotype:	IgG
Characteristics:	This antibody recognizes a protein of about 37 kDa, which is identified as Erythropoietin (EPO). Erythropoietin is a secreted, glycosylated cytokine hormone composed of four alpha helical bundles. It is the primary factor responsible for regulating erythropoiesis during steady-state conditions and in response to blood loss and hemorrhage in the adult organism. Erythropoietin is synthesized by the kidney and stimulates the proliferation and maturation of bone marrow erythroid precursor cells. The protein is found in the plasma and regulates red cell production

Product Details

by promoting erythroid differentiation and initiating hemoglobin synthesis. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. Note: Conjugates of blue fluorescent dyes like CF®405S and CF®405M are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors.

Target Details

Target:	EPO
Alternative Name:	Erythropoietin (EPO Products)
Target Type:	Hormone
Background:	EP, EPO alpha, EPO, Epoetin, Erythropoietin, MVCD2
Molecular Weight:	37 kDa
Gene ID:	2056, 2303
UniProt:	P01588
Pathways:	JAK-STAT Signaling, Hormone Activity, Negative Regulation of intrinsic apoptotic Signaling, Negative Regulation of Transporter Activity

Application Details

Application Notes:	Immunohistology (formalin) 4-8 µg/mL • Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min • Flow Cytometry 0.5-1 µg/million cells/0.1 mL • Immunofluorescence 1-2 µg/mL • Western blotting 0.5-1 µg/mL • Optimal dilution for a specific application should be determined by user
Comment:	HepG2 Cells. Heart or Kidney.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	100 µg/mL

Handling

Buffer:	PBS/0.1 % BSA/0.05 % azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Protect from light