

Erythropoietin (EPO) (Clone ZM135)

Monospecific Mouse Monoclonal Antibody

Specificity: Human. Others-not known

Immunogen: Recombinant fragment of human EPO protein (around aa 28-162)

Ig Class: IgG1/κ

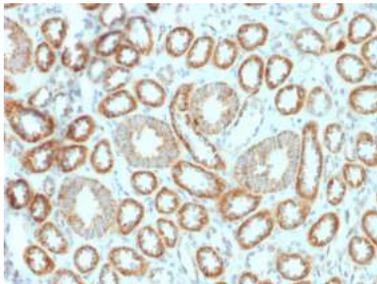
Storage: Store vial at 4°C. When stored at 2-8°C, this antibody is stable for 24 months.

Staining procedures: Use formalin-fixed and paraffin-embedded sections. *Retrieval conditions:* Pretreatment of deparaffinized tissue with heat-induced epitope retrieval is recommended. *Detection methods:* Polymer anti-mouse/rabbit Ig detection system. *Working dilution:* 1:100-200; *Positive Control:* Kidney. *Cellular Localization:* Cytoplasmic.

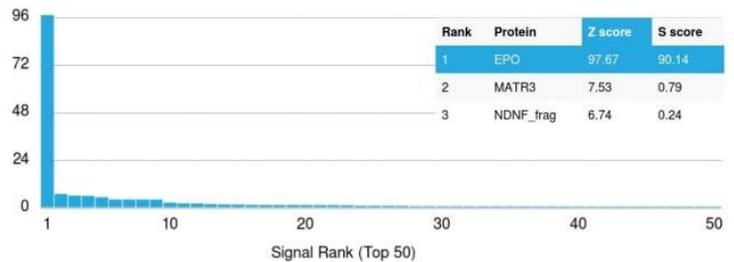
Description: Recognizes a protein of about 37kDa, which is identified as Erythropoietin (EPO). Erythropoietin is a secreted, glycosylated cytokine hormone composed of four alpha helical bundles. It is the primary factor responsible for regulating erythropoiesis during steady-state conditions and in response 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 by promoting erythroid differentiation and initiating hemoglobin synthesis.

Intended Use: This antibody is intended for in vitro diagnostic (IVD) use. Erythropoietin (clone ZM135) mouse monoclonal primary antibody is intended for laboratory use in the detection of erythropoietin in formalin-fixed, paraffin-embedded tissue by immunohistochemical (IHC) staining. The staining results should be interpreted by qualified pathologists in conjunction with the patient's relevant clinical history.

Supplied As: Purified antibody in Tris-HCl buffer containing stabilizing protein and <0.1% sodium azide.



Formalin-fixed, paraffin-embedded human kidney stained with anti-erythropoietin antibody using peroxidase-conjugate and DAB chromogen. Note cytoplasmic staining of tubular cells



References:

1. Miller CP, et al. *Stem Cells*. 2009; 27:2353-61.
2. Clark D, et al. *Mod Pathol*. 1998; 11:24-8.
3. Hufnagel TJ, et al. *Am J Surg Pathol*. 1989; 13:207-16.

REF Z2445 (1.0 ml) (Concentrate); Z2445B (1mg/1ml)