

## Anti-EPO Antibody [EPO/1368] (A248440)

### Specifications:

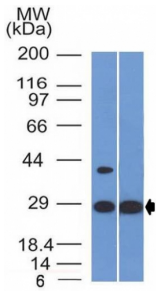
Name:	Anti-EPO Antibody [EPO/1368]
Description:	Mouse monoclonal [EPO/1368] antibody to EPO.
Specificity:	This antibody recognizes a protein of about 37kDa, which is identified as Erythropoietin (EPO). Erythropoietin is a secreted, glycosylated cytokine hormone composed of four alpha helical bundles. 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.
Applications:	ELISA, WB, IHC-P
Recommended Dilutions:	WB: 1-2 µg/ml, IHC-P: 2-4 µg/ml
Reactivity:	Human
Immunogen:	Recombinant fragment, around amino acids 28-162, of human EPO protein. The exact sequence is proprietary.
Host:	Mouse
Clonality:	Monoclonal
Clone ID:	EPO/1368
Isotype:	IgG1
Light Chains:	kappa
Conjugate:	Unconjugated
Purification:	Protein A/G chromatography.
Concentration:	200 µg/ml
Product Form:	Liquid
Formulation:	Supplied in 10mM Phosphate Buffered Saline with 0.05% BSA and 0.05% Sodium Azide.
Storage:	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
General Notes:	This monoclonal antibody is also available in a different formulation without BSA and Sodium Azide - Anti-EPO Antibody [EPO/1368] - BSA and Azide free (A251622).

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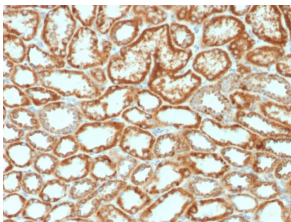
## Specifications continued:

**Disclaimer:** This product is for research use only. It is not intended for diagnostic or therapeutic use.

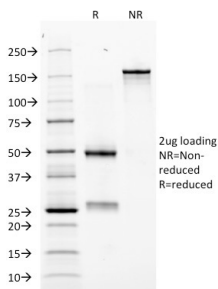
## Images:



Western blot analysis of human heart tissue and HepG2 cell lysates using Anti-EPO Antibody [EPO/1368].



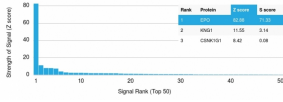
Immunohistochemical analysis of formalin-fixed, paraffin-embedded human renal cell carcinoma using Anti-EPO Antibody [EPO/1368].



SDS-PAGE analysis of Anti-EPO Antibody [EPO/1368] under non-reduced and reduced conditions; showing intact IgG and intact heavy and light chains, respectively. SDS-PAGE analysis confirms the integrity and purity of the antibody.

## Anti-EPO Antibody [EPO/1368] (A248440)

Images continued:



Analysis of protein array containing more than 19,000 full-length human proteins using Anti-EPO Antibody [EPO/1368]. Z-Score and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target; a MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.