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EPOR Antibody (monoclonal) (M02)

Mouse monoclonal antibody raised against a partial recombinant EPOR.
Catalog # AT1932a

Specification

EPOR Antibody (monoclonal) (M02) - Product Information

Application	**WB, E**
Primary Accession	P19235
Other Accession	NM_000121
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b Kappa**
Calculated MW	**55065**

EPOR Antibody (monoclonal) (M02) - Additional Information

Gene ID 2057

Other Names
Erythropoietin receptor, EPO-R, EPOR

Target/Specificity
EPOR (NP_000112, 31 a.a. ~ 130 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000
E~~N/A

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
EPOR Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

EPOR Antibody (monoclonal) (M02) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

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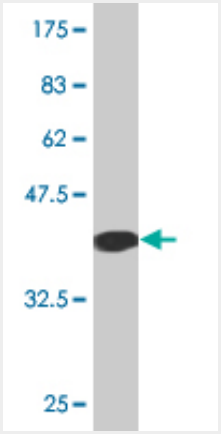
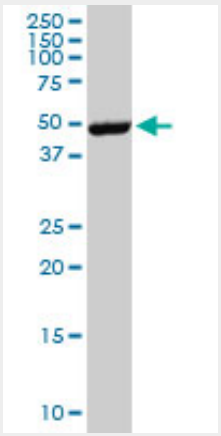
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

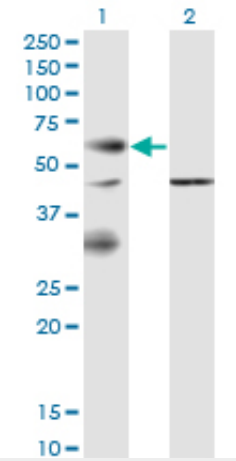
EPOR Antibody (monoclonal) (M02) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .



EPOR monoclonal antibody (M02), clone 3F6. Western Blot analysis of EPOR expression in HeLa ((Cat # AT1932a)



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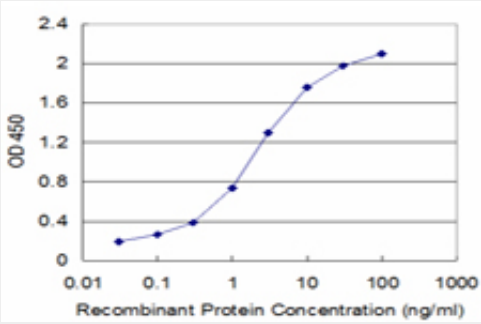
Western Blot analysis of EPOR expression in transfected 293T cell line by EPOR monoclonal antibody (M02), clone 3F6.

Lane 1: EPOR transfected lysate (Predicted MW: 55.1 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged EPOR is approximately 0.03ng/ml as a capture antibody.

EPOR Antibody (monoclonal) (M02) - Background

This gene encodes the erythropoietin receptor which is a member of the cytokine receptor family. Upon erythropoietin binding, this receptor activates Jak2 tyrosine kinase which activates different intracellular pathways including: Ras/MAP kinase, phosphatidylinositol 3-kinase and STAT transcription factors. The stimulated erythropoietin receptor appears to have a role in erythroid cell survival. Defects in the erythropoietin receptor may produce erythroleukemia and familial erythrocytosis. Dysregulation of this gene may affect the growth of certain tumors. Alternate splicing results in multiple transcript variants.

EPOR Antibody (monoclonal) (M02) - References

A diversity of antibody epitopes can induce signaling through the erythropoietin receptor. Lim AC, et al. Biochemistry, 2010 May 11. PMID 20337434.STAT3 and hypoxia induced proteins--HIF-1alpha, EPO and EPOR in relation with Bax and Bcl-xL in nodal metastases of ductal breast cancers. Wincewicz A, et al. Folia Histochem Cytobiol, 2009 Jan. PMID 20164027.Absence of functional EpoR expression in human tumor cell lines. Swift S, et al. Blood, 2010 May 27. PMID 20124514.Functional erythropoietin receptor is undetectable in endothelial, cardiac, neuronal, and renal cells. Sinclair AM, et al. Blood, 2010 May 27. PMID 20124513.Induction of nitric oxide by erythropoietin is mediated by the {beta} common receptor and requires interaction with VEGF receptor 2. Sautina L, et al. Blood, 2010 Jan 28. PMID 19965681.