Datasheet: AHP1825

Description:	SHEEP ANTI HUMAN ERYTHROPOIETIN RECEPTOR
Specificity:	ERYTHROPOIETIN RECEPTOR
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			50ng/ml
Immunoprecipitation	▪			10ug/ml
Western Blotting	▪			10ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Antiserum Preparation

Antiserum to human EPOR was raised by repeated immunisation of sheep with highly purified antigen. Purified IgG was prepared by affinity chromatography.

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers	<0.1% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 1.0mg/ml
Immunogen	Partial cDNA of the extracellular domain of human EPOR expressed as a GST fusion protein in *E. Coli*.
External Database Links	**UniProt:** P19235 Related reagents P14753 Related reagents **Entrez Gene:** 2057 EPOR Related reagents 13857 Epor Related reagents
RRID	AB_2098551
Specificity	**Sheep anti Human erythropoietin receptor antibody** recognizes the human Erythropoietin Receptor (EPOR), a type I transmembrane protein and member of the type I cytokine receptor family, expressed by erythroid cells and erythroid progenitor cells, which acts as a receptor for erythropoietin (EPO) to mediate erythroblast proliferation and differentiation, and maintain progenitor survival. Binding of EPO to EPOR, results in the dimerization of the EPOR and the triggering of the JAK2/STAT5 signaling cascade, and in some cell types activation of STAT1 and STAT3. Several isoforms of EPOR exist: EPOR-F, EPOR-S and EPOR-T, and a functional EPOR is found on endothelial cells and cardiomyocytes within the cardiovascular system, suggesting a role in cardiac function. Sheep anti Human erythropoietin receptor antibody (**AHP1825**) blocks Iodine^{125} labelled erythropoietin ligand binding using erythroleukemia cell line TF-1 with 3000 EPOR/cells (Harris *et al.* 1992). Sheep anti Human erythropoietin receptor antibody is suitable for use in immunocytochemistry and for use in functional assays. Removal of sodium azide is recommended prior to use in functional assays.
ELISA	This product is suitable for use in indirect ELISA applications.
Western Blotting	AHP1825 detects a 49kDa band of EPOR-GST on SDS-PAGE.
References	1. Harris, K.W. *et al.* (1992) Ligand binding properties of the human erythropoietin receptor extracellular domain expressed in *Escherichia coli*. J Biol Chem. 267 (21): 15205-9.

Storage	Store at +4°C. DO NOT FREEZE. This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/AHP1825 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Sheep IgG (H/L) (5184-2304...) Biotin

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	**Worldwide**	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M420644:230706'

Printed on 06 Jul 2023

© 2023 Bio-Rad Laboratories Inc | Legal | Imprint