### 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

**RRID** AB_2098551

**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](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td>Immunohistology - Paraffin</td>
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<tr>
<td>ELISA</td>
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<td>50ng/ml</td>
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<td>Immunoprecipitation</td>
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<td>10ug/ml</td>
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<tr>
<td>Western Blotting</td>
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<td>10ug/ml</td>
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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.

**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** 0.09% Sodium Azide (NaN₃)

**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

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<tr>
<th>UniProt:</th>
<th>Related reagents</th>
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Entrez Gene:

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<td>Related reagents</td>
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<tr>
<td>13857 Epor</td>
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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\textsuperscript{125} labelled erythropoietin ligand binding using erythroleukemia cell line TF-1 with 3000 EPOR/cell in neutralization studies (Harris et al. 1992).

Sheep anti Human erythropoietin receptor antibody is reported as suitable for use in immunocytochemistry and for use in functional studies. Removal of Sodium Azide is recommended prior to use in functional assays. Bio-Rad recommend the use of EQU003 for this purpose. The recommended concentration for functional assays is 500ug/ml.

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


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

18 months from date of despatch.

Health And Safety Information


Regulatory

For research purposes only

Related Products
Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...)  DyLight®488, FITC, HRP
Rabbit Anti Sheep IgG (H/L) (5184-2304...) Biotin

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