

## Datasheet: AHP2609

<b>Description:</b>	RABBIT ANTI ESTROGEN RECEPTOR ALPHA (pSer104)
<b>Specificity:</b>	ESTROGEN RECEPTOR ALPHA (pSer104)
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µl

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

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			1/50 - 1/100
Western Blotting	▪			1/500 - 1/2000

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

Based on sequence similarity, is expected to react 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 estrogen receptor alpha (pSer104) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.02% Sodium Azide  
50% Glycerol

<b>Immunogen</b>	Phospho specific-peptide corresponding to residues surrounding serine 104 of human estrogen receptor alpha
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P03372</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">2099</a>    ESR1    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	ESR, NR3A1
<b>Specificity</b>	<b>Rabbit anti estrogen receptor alpha (pSer104) antibody</b> recognizes estrogen receptor alpha, also known as ER-alpha, when phosphorylated at serine 104. Estrogen receptor alpha is a member of the nuclear receptor superfamily and also functions as a ligand-regulated transcription factor. Estrogen receptor alpha consists of several domains including the transcription activation function-1 domain (AF-1), the DNA-binding domain, the hinge domain and the ligand-binding domain (AF-2). Estrogen receptor alpha is phosphorylated at serine 104 by MAPKs, Cdk2 and GSK3 ( <a href="#">Thomas <i>et al.</i> 2008</a> , <a href="#">Rogatsky <i>et al.</i> 1999</a> , <a href="#">Medunjanin <i>et al.</i> 2005</a> ). Phosphorylation at serine 104 contributes to agonist independent activation of estrogen receptor alpha.
<b>Further Reading</b>	<ol style="list-style-type: none"> <li>1. Thomas, R.S. <i>et al.</i> (2008) Phosphorylation at serines 104 and 106 by Erk1/2 MAPK is important for estrogen receptor-alpha activity. <a href="#">J Mol Endocrinol. 40 (4): 173-84.</a></li> <li>2. Rogatsky, I. <i>et al.</i> (1999) Potentiation of human estrogen receptor alpha transcriptional activation through phosphorylation of serines 104 and 106 by the cyclin A-CDK2 complex. <a href="#">J Biol Chem. 274 (32): 22296-302.</a></li> <li>3. Medunjanin, S. <i>et al.</i> (2005) Glycogen synthase kinase-3 interacts with and phosphorylates estrogen receptor alpha and is involved in the regulation of receptor activity. <a href="#">J Biol Chem. 280 (38): 33006-14.</a></li> </ol>
<b>Storage</b>	<p>Store at -20°C</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10049 available at: 10049: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)    [FITC](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

## Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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