

Datasheet: AHP2609

Description:	RABBIT ANTI ESTROGEN RECEPTOR ALPHA (pSer104)
Specificity:	ESTROGEN RECEPTOR ALPHA (pSer104)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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.
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	0.02% Sodium Azide
Stabilisers	50% Glycerol
Immunogen	Phospho specific-peptide corresponding to residues surrounding serine 104 of human estrogen receptor alpha

External Database

Links

UniProt:

[P03372](#) [Related reagents](#)

Entrez Gene:

[2099](#) ESR1 [Related reagents](#)

Synonyms	ESR, NR3A1
Specificity	Rabbit anti estrogen receptor alpha (pSer104) antibody 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 (Thomas et al. 2008 , Rogatsky et al. 1999 , Medunjanin et al. 2005). Phosphorylation at serine 104 contributes to agonist independent activation of estrogen receptor alpha.
Further Reading	<ol style="list-style-type: none"> 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. J Mol Endocrinol. 40 (4): 173-84. 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. J Biol Chem. 274 (32): 22296-302. 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. J Biol Chem. 280 (38): 33006-14.
Storage	<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>
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10049 available at: 10049: https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

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

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