

Datasheet: AHP2610

Description:	RABBIT ANTI ESTROGEN RECEPTOR ALPHA (pSer106)
Specificity:	ESTROGEN RECEPTOR ALPHA (pSer106)
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. 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 (pSer106) 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

Immunogen Phospho specific-peptide corresponding to residues surrounding serine 106 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 (pSer106) antibody** recognizes estrogen receptor alpha, also known as ER-alpha, when phosphorylated at serine 106. 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 106 by MAPKs, Cdk2 and GSK3 ([Thomas *et al.* 2008](#), [Rogatsky *et al.* 1999](#), [Medunjanin *et al.* 2005](#)). Phosphorylation at serine 106 contributes to agonist independent activation of estrogen receptor alpha.

Further Reading

1. Thomas, R.S. *et al.* (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. *et al.* (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. *et al.* (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 Store at -20°C
Storage in frost-free freezers is not recommended.
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.

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

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