

Datasheet: MCA6322

**BATCH NUMBER 155792**

<b>Description:</b>	RABBIT ANTI ESTROGEN RECEPTOR ALPHA
<b>Specificity:</b>	ESTROGEN RECEPTOR ALPHA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM292
<b>Isotype:</b>	IgG
<b>Quantity:</b>	0.1 ml

## 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	▪			1/100 - 1/200
Western Blotting	▪			1/200 - 1/500

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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	A peptide corresponding to residues near the N-terminus of Human estrogen receptor alpha

**External Database  
Links**

**UniProt:**

[P03372](#)   [Related reagents](#)

**Entrez Gene:**

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

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**Synonyms**

ESR, NR3A1

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**Specificity**

**Rabbit anti Human estrogen receptor alpha antibody** recognizes estrogen receptor (ER), also known as Estradiol receptor, ESR1, NR3A1. Estrogen is a steroid hormone which, among other functions, regulates the growth, development, and physiology of the human reproductive system. Estrogen is synthesized by ovaries and by cells expressing the enzyme aromatase, and recognized by cells expressing the estrogen receptor ([Hewitt and Korach 2018](#)). Estrogen receptors are nuclear receptors which function as transcription factors, switching on expression of genes involved with reproductive organ development, bone modeling, function of the cardiovascular system, metabolism, and behaviour ([Lee et al. 2012](#)). Abnormal expression of estrogen receptors is involved with initiation and development of hormone-related cancers, and can also affect the outcome of cancer therapy. Around 70% of breast cancers express the estrogen receptor, and for these patients, antiestrogen therapy is mainstay treatment ([Drago et al. 2019](#)). Estrogen and the estrogen receptor also appear to be involved with lung carcinogenesis ([Hsu et al. 2017](#)).

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**Storage**

Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10048 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6322>  
10048

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**Regulatory**

For research purposes only

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## 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](#)

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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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