**Description:** MOUSE ANTI ESTROGEN RECEPTOR ALPHA

**Specificity:** ESTROGEN RECEPTOR ALPHA

**Format:** Purified

**Product Type:** PrecisionAb Monoclonal

**Isotype:** IgG1

**Quantity:** 100 µl

**Product Details**

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blotting</td>
<td></td>
<td></td>
<td></td>
<td>1/1000</td>
</tr>
</tbody>
</table>

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

**Target Species**

Human

**Species Cross Reactivity**

Reacts with: Mouse, Rat

N.B. Antibody reactivity and working conditions may vary between species.

**Product Form**

Purified IgG - liquid

**Preparation**

Mouse monoclonal antibody prepared by affinity chromatography on Protein G from ascites

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide (NaN₃)

**Immunogen**

Purified recombinant fragment of human estrogen receptor alpha expressed in *E. coli*

**External Database Links**

- UniProt: [P03372](#) Related reagents
- Entrez Gene: [2099](#) ESR1 Related reagents

**Synonyms**

ESR, NR3A1
### Specificity

**Mouse anti Human estrogen receptor alpha antibody** recognizes estrogen receptor alpha, also known as ER-alpha, estradiol receptor, estrogen nuclear receptor alpha, estrogen receptor, estrogen receptor alpha E1-E2-1-2, estrogen receptor alpha E1-N2-E2-1-2 and nuclear receptor subfamily 3 group A member 1.

Encoded by the ESR1 gene, estrogen receptor alpha is a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative splicing results in several transcript variants, which differ in their 5’ UTRs and use different promoters (provided by RefSeq, Jul 2008).

Mouse anti Human estrogen receptor alpha antibody detects a band of 66 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

### Western Blotting

Anti estrogen receptor alpha detects a band of approximately 66 kDa in C6 cell lysates.

### Storage

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

### Guarantee

12 months from date of despatch

### Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

### Health And Safety Information

Material Safety Datasheet documentation #10040 available at:

### Related Products

#### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) **HRP**

#### Recommended Negative Controls

**MOUSE IgG1 NEGATIVE CONTROL (MCA928)**