



## ER $\alpha$ (phospho Ser118) Polyclonal Antibody

Cat #: ABP50312

Size: 30 $\mu$ l /100 $\mu$ l /200 $\mu$ l

### Product Information

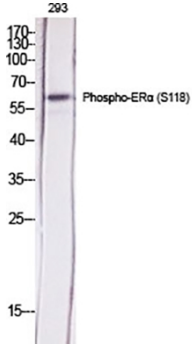
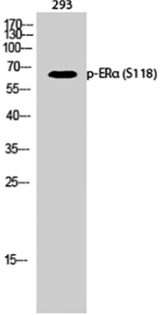
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|---|---|---|---|
|   | <b>Product Name:</b> ER $\alpha$ (phospho Ser118) Polyclonal Antibody |   |   |
|   | <b>Applications:</b> WB, IHC-P, ELISA                                 |   | <b>Isotype:</b> Rabbit IgG                |
|   | <b>Reactivity:</b> Human, Mouse                                       |   |   |
| <b>REF</b>  | <b>Catalog Number:</b> ABP50312                                       | <b>LOT</b>  | <b>Lot Number:</b> Refer to product label |
|   | <b>Formulation:</b> Liquid  |   | <b>Concentration:</b> 1 mg/ml             |
|  | <b>Storage:</b> Store at -20°C. Avoid repeated freeze / thaw cycles.  |  | <b>Note:</b> Contain sodium azide.        |

**Background:** ESR1 encodes an estrogen receptor, a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein (estrogen receptor 1) 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 promoter usage and alternative splicing result in dozens of transcript variants, but the full-length nature of many of these variants has not been determined.

**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), IHC-P (1:100-1:300), ELISA (1:20000). Not yet tested in other applications.

**Storage Buffer:** PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.

**Storage Instructions:** Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

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|  | <p>Fig.1. Western Blot analysis of various cells using Phospho-ERα (S118) Polyclonal Antibody diluted at 1:2000.</p> |
|  | <p>Fig.2. Western Blot analysis of 293 cells using Phospho-ERα (S118) Polyclonal Antibody diluted at 1:2000.</p>     |

**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.