

## Estrogen Receptor-a(Phospho-Ser167) Antibody

Catalog No: #11073



Package Size: #11073-1 50ul #11073-2 100ul #11073-4 25ul

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## Description

|                       |   |
|-----------------------|---|
| Product Name          | Estrogen Receptor-a(Phospho-Ser167) Antibody  |
| Host Species          | Rabbit  |
| Clonality             | Polyclonal  |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates.<br>Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. |
| Applications          | WB IHC IF   |
| Species Reactivity    | Hu  |
| Specificity           | The antibody detects endogenous level of Estrogen Receptor-a only when phosphorylated at serine16.  |
| Immunogen Type        | Peptide-KLH   |
| Immunogen Description | Peptide sequence around phosphorylation site of serine 167 (L-A-S(p)-T-N) derived from Human Estrogen Receptor-a.   |
| Target Name           | Estrogen Receptor-a   |
| Modification          | Phospho-Ser167  |
| Other Names           | ER; ESR; ESR1; ESTR; ESTRA  |
| Accession No.         | Swiss-Prot: P03372NCBI Protein: NP_000116.2   |
| Concentration         | 1.0mg/ml  |
| Formulation           | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.  |
| Storage               | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.   |

## Application Details

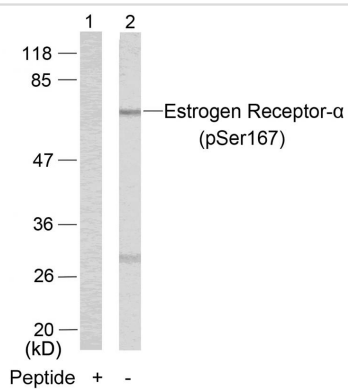
Predicted MW: 66kd

Western blotting: 1:500~1:1000

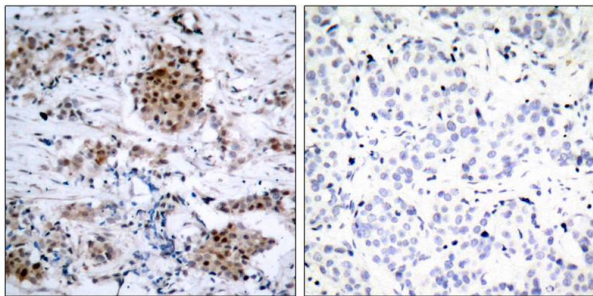
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

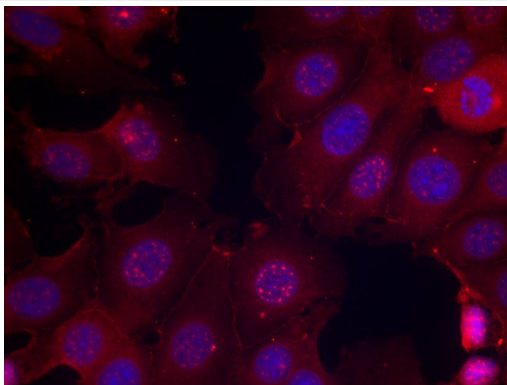
## Images



Western blot analysis of extracts from MCF7 cells using Estrogen Receptor- $\alpha$ (Phospho-Ser167) Antibody #11073(Lane 2) and the same antibody preincubated with blocking peptide(Lane1).



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Estrogen Receptor- $\alpha$ (Phospho-Ser167) Antibody #11073(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed MCF cells using Estrogen Receptor- $\alpha$ (Phospho-Ser167) Antibody #11073.

## Background

Nuclear hormone receptor. The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues.

Feinmesser RL, et al. (1999) *J Biol Chem*; 274(23): 16168-73.

Gamou S, et al. (1995) *FEBS Lett*; 357(2): 161-4.

Gamou S, et al. (1994) *J Cell Physiol*; 158(1): 151-9.

Heisermann GJ, et al. (1988) *J Biol Chem*; 263(26): 13152-8.

## Published Papers

Kazuyoshi Motomura, Makoto Ishitobi, Yoshifumi Komoike et al., Expression of Estrogen Receptor Beta and Phosphorylation of Estrogen Receptor Alpha Serine 167 Correlate with Progression-Free Survival in Patients with Metastatic Breast Cancer Treated with Aromatase Inhibitors., *Oncology*, 79,1-2(2010)

PMID:21071990

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Note: This product is for in vitro research use only and is not intended for use in humans or animals.