**Product Datasheet**

# Estrogen Receptor-a  Antibody

Catalog No: #21065

Package Size: #21065-1 50ul  #21065-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

## Description

| | |
|---|---|
| Product Name | Estrogen Receptor-a  Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide. |
| Applications | WB;IHC |
| Species Reactivity | Human |
| Specificity | The antibody detects endogenous level of total Estrogen Receptor-a protein. |
| Immunogen Type | Peptide-KLH |
| Immunogen Description | Peptide sequence around aa.102~106 (S-V-S-P-S) derived from Human Estrogen Receptor-a. |
| Conjugates | Unconjugated |
| Target Name | Estrogen Receptor-a |
| Other Names | ER; ESR; ESR1; ESTR; ESTRA |
| Accession No. | Swiss-Prot: P03372NCBI Protein: NP_000116.2 |
| Calculated MW | 66kDa |
| SDS-PAGE MW | 66kDa |
| Concentration | 1.0mg/ml |
| Formulation | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), 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. |

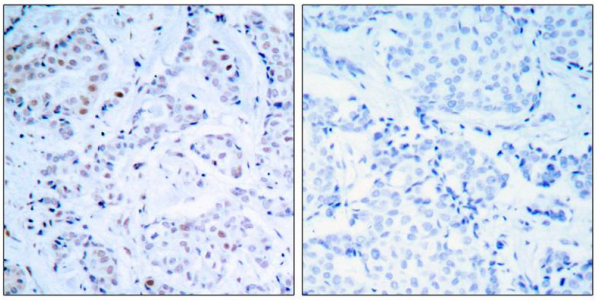
## Application Details

Predicted MW: 66kd

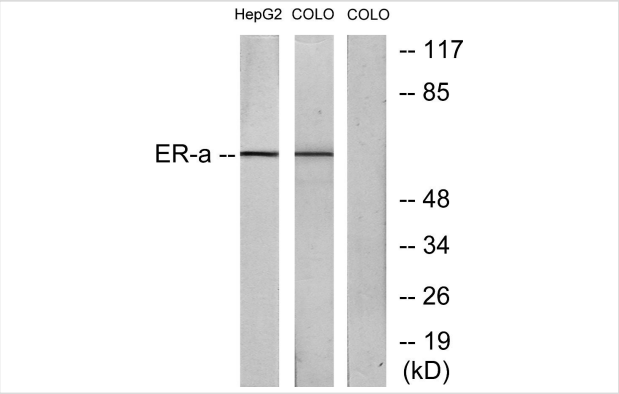
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

## Images



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using Estrogen Receptor-a(Ab-104) Antibody #21065(left) or the same antibody preincubated with blocking peptide(right).




Western blot analysis of lysates from HepG2 and COLO cells, treated with EGF, using Estrogen Receptor-alpha Antibody. The lane on the right is blocked with the synthesized peptide.

## 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.

Medunjanin S, et al. (2005). J Biol Chem.80 (38):33006-33014.
Dutertre M, et al. (2003). Mol Endocrinol.17 (7): 1296-1314.
Chen D, et al. (2000). Mol Cell.6 (1): 127-137.
Rogatsky I, et al. (1999). J Biol Chem.274 (32): 22296-22302.

## Published Papers

Yamaguchi, J Zhu, T Yu el at., Serum-free mouse embryo cells generate a self-sustaining feedback loop for an astrocyte marker protein and respond to cytokines and bisphenol A in accordance with the subtle difference in their differentiation state., Cell Biology International, 31(6):638-644(2007)
PMID:17210262

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