**Product Datasheet**

# ER alpha Antibody

Catalog No: CY5041 Reactivity: Human, Mouse, Rat, Dog

Isotype: Rabbit IgG Applications: WB, IHC, ICC/IF, FC, ChIP

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## Information

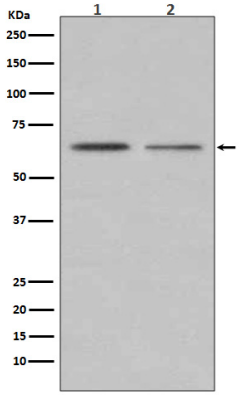
**UniProt ID**: P03372
**All Names**: ER; ESR; ESR1; Era; ESRA; NR3A1; DKFZp686N23123
**Form**: Liquid
**Storage instructions:** Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.
**Storage buffer:** pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
**Purity:** Affinity-chromatography
**Immunogen:** A synthesized peptide
**Molecular Wt.:** 60 kDa

## Application

WB: 1:500~1:2000
IHC: 1:50~1:100
ICC/IF: 1:50~1:100
ChIP: 1:30
FC: 1:30

## Background

ER (estrogen receptor 1) a member of the steroid receptor superfamily, contains highly conserved DNA binding (DBD) and ligand binding domains (LBD). Through its estrogen-independent and estrogen-dependent activation domains (AF-1 and AF-2, respectively), ER regulates transcription by recruiting coactivator proteins and interacting with general transcriptional machinery. Phosphorylation provides an important mechanism to regulate ER activity. ER is phosphorylated on multiple sites. Serines 104, 106, 118 and 167 are located in the amino-terminal transcription activation function domain AF-1, and phosphorylation of these serines plays an important role in regulating ER activity. Ser118 may be the substrate of the transcription regulatory kinase cdK7. Ser167 may be phosphorylated by p90RSK and Akt. Phosphorylation of Ser167 may confer tamoxifen resistance in breast cancer patients.




Western blot analysis of ER alpha expression in(1) MCF7 cell lysate;(2) T47-D cell lysate.

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