

Product Datasheet

Phospho-Estrogen Receptor alpha (S118) Antibody

Catalog No: CY5624

Reactivity: Human

Isotype: Rabbit IgG

Applications: WB IHC ICC/IF



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Information

UniProt ID: P03372

All Names: ESR1; Era; Eralpha; Estrogen receptor; Estradiol receptor; ER-alpha; Estrogen receptor 1; NR3A1; ER; ESR; ESRA; Estrogen receptor alpha;

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.: 66 kDa

Application

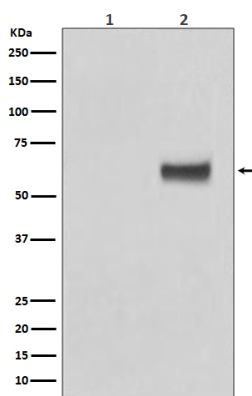
WB: 1:500~1:2000

IHC: 1:50~1:200

ICC/IF: 1:50~1:200

Background

Estrogen receptor α (ER α), 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 α regulates transcription by recruiting coactivator proteins and interacting with general transcriptional machinery. Phosphorylation provides an important mechanism to regulate ER α activity. ER α is phosphorylated on multiple sites. Ser104, 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 α 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 Phospho-Estrogen Receptor alpha (S118) expression in (1) MCF7 cell lysate; (2) MCF7 cell lysate treated with b-Estradiol and EGF.

For Research Use Only. Not For Use In Diagnostic Procedures.

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