

Product datasheet for AM06176SU-N

OriGene Technologies, Inc.

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Estrogen Receptor 1 (ESR1) Mouse Monoclonal Antibody [Clone ID: 5D4B1]

Product data:

Product Type: Primary Antibodies

Clone Name: 5D4B1

Applications: ELISA, WB

Recommended Dilution: ELISA: 1/10000.

Western Bloting: 1/500 - 1/2000.

Reactivity: Human
Host: Mouse
Isotype: IgG2b

Clonality: Monoclonal

Immunogen: Purified recombinant fragment of ER expressed in E. Coli.

Specificity: Recognizes ER (Estrogen Receptor 1).

Formulation: State: Ascites

State: Ascitic fluid containing 0.03% Sodium Azide.

Conjugation: Unconjugated

Storage: Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.

Avoid repeated freezing and thawing.

Stability: Shelf life: one year from despatch.

Gene Name: estrogen receptor 1

Database Link: Entrez Gene 2099 Human

P03372





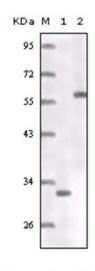
Background:

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.

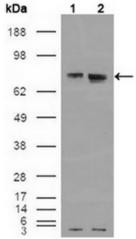
Synonyms:

ER alpha, Estradiol receptor, ESR1, ESR, NR3A1

Product images:



Western blot analysis using ER antibody Cat.-No AM06176SU-N truncated ER recombinant protein (Lane 1) MCF-7 cell lysates (Lane 2).



Western blot analysis using ER antibody Cat.-No AM06176SU-N against HEK293T cells transfected with the pCMV6-ENTRY Control (Lane 1) and pCMV6-ENTRY ER cDNA (Lane 2).