Anti-Estrogen Receptor alpha (phospho S294) antibody [BUI-1-37] ab207602

Overview

Product name: Anti-Estrogen Receptor alpha (phospho S294) antibody [BUI-1-37]
Description: Rabbit monoclonal [BUI-1-37] to Estrogen Receptor alpha (phospho S294)
Host species: Rabbit
Tested applications: Suitable for: WB, IP
Species reactivity: Reacts with: Human
Immunogen: Synthetic peptide corresponding to Human Estrogen Receptor alpha aa 250-350 (phospho S294).

Database link: P03372

General notes

Western blot protocol advice:

Since intracellular levels of pS294 ER are very low, Western blot without prior immunoprecipitation of total ER is not sensitive enough to detect pS294 ER. We recommend initial ER immunoprecipitation, following which it is possible to use this antibody for Western blot (see data image).

This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com or you can find further information here.

Properties

Form: Liquid
Storage buffer: pH: 7.40
Preservative: 0.02% Sodium azide
Constituents: PBS, 6.97% L-Arginine
Purity: Protein A purified
Clonality: Monoclonal
Clone number: BUI-1-37
Function
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. Can activate the transcriptional activity of TFF1.

Sequence similarities
Belongs to the nuclear hormone receptor family. NR3 subfamily. Contains 1 nuclear receptor DNA-binding domain.

Domain
Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.

Post-translational modifications

Cellular localization

Images

Western blot - Anti-Estrogen Receptor alpha (phospho S294) antibody [BUi-1-37] (ab207602)

MCF7 cells growing in phenol red-free medium supplemented with 5% charcoal stripped serum for 24 hours were treated for 25 minutes with vehicle (C = control), 10nM E2, or pretreated for 20 minutes with 1uM Dinaciclib (CDK2 inhibitor) and then 25 minutes with E2 treatment (Din/E2). Harvested cells were lysed and immunoprecipitated using an ERα N-terminal directed rabbit polyclonal antibody, and the immunoprecipitated ERα (45 ml final volume each from C, E2 and Din/E2 samples) was used to prepare separate western blots probed with either ab207602 anti-ERpS294 monoclonal, or antibodies specific for ERpS118 or total ERα, all of which run at 67 kDa molecular weight.

Alternatively, cell lysates can first be immunoprecipitated with ab207602 anti-ERpS294 monoclonal and the immunoprecipitate then western blotted with other antibodies specific for ERα (not shown).
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