

Product datasheet

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

Recombinant

[2 References](#) [1 Image](#)

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
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>This product has switched from a hybridoma to recombinant production method on 2nd November 2020.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	BUI-1-37

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab207602 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/10000. Predicted molecular weight: 66 kDa. 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).

Target

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.

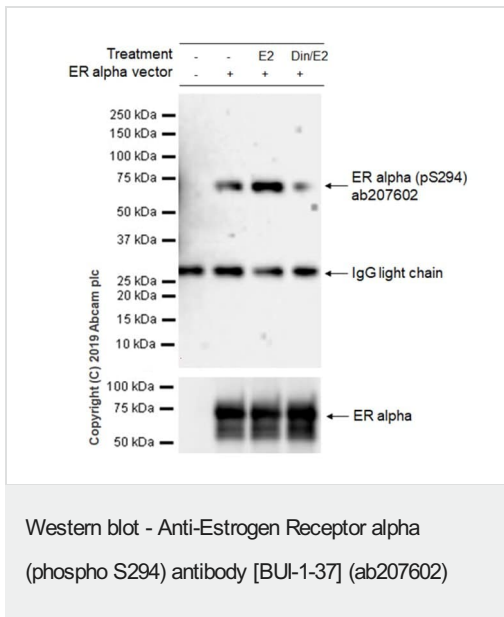
Post-translational modifications

Phosphorylated by cyclin A/CDK2. Phosphorylation probably enhances transcriptional activity.
Glycosylated; contains N-acetylglucosamine, probably O-linked.
Ubiquitinated. Deubiquitinated by OTUB1.
Dimethylated by PRMT1 at Arg-260. The methylation may favor cytoplasmic localization.
Palmitoylated (isoform 3). Not biotinylated (isoform 3).

Cellular localization

Nucleus. Cytoplasm. Cell membrane. A minor fraction is associated with the inner membrane and
Nucleus. Cytoplasm. Cell membrane. Associated with the inner membrane via palmitoylation.

Images



All lanes : Anti-Estrogen Receptor alpha (phospho S294) antibody [BUI-1-37] (ab207602) at 1/1000 dilution

Lane 1 : 293T (Human embryonic kidney epithelial cell) whole cell lysate

Lane 2 : 293T transfected with myc-his tagged ER alpha overexpression vector whole cell lysate

Lane 3 : 293T transfected with myc-his tagged ER alpha overexpression vector treated with 10nM E2 for 25min whole cell lysate

Lane 4 : 293T transfected with myc-his tagged ER alpha overexpression vector treated with 1uM Dinaciclib (CDK2 inhibitor) for 1h, then add 10nM E2 for 25min whole cell lysate

Predicted band size: 66 kDa

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