

Product datasheet

Anti-Estrogen Receptor alpha (phospho S167) antibody ab31478

★★★★★ [1 Abreviews](#) [6 References](#) [3 Images](#)

Overview

Product name	Anti-Estrogen Receptor alpha (phospho S167) antibody
Description	Rabbit polyclonal to Estrogen Receptor alpha (phospho S167)
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human Estrogen Receptor alpha (phospho S167).
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine), 0.87% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab31478 in the following tested applications.

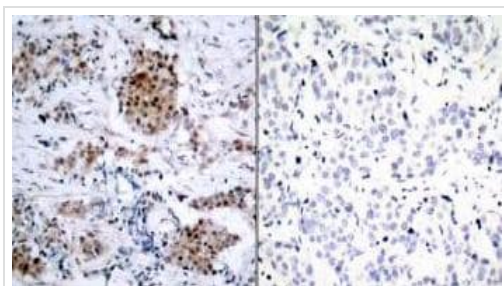
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Predicted molecular weight: 68 kDa.
IHC-P	★★★★★ (1)	1/50 - 1/100.

Target

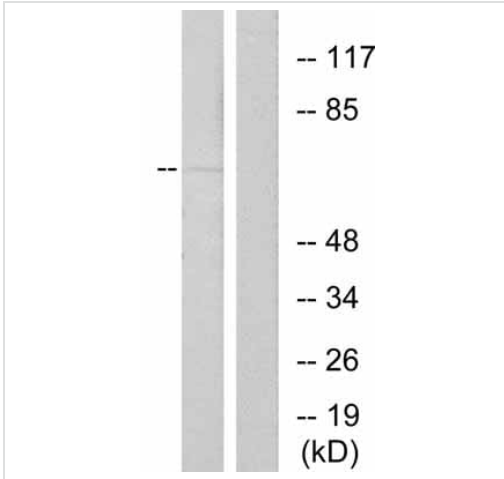
Function	Nuclear hormone receptor. The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Can activate the transcriptional activity of TFF1.
Sequence similarities	Belongs to the nuclear 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



Immunohistochemical analysis of paraffin-embedded breast carcinoma, using ab31478 at 1/50. Left: Untreated; Right: Treated with synthesized phosphopeptide.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Estrogen Receptor alpha (phospho S167) antibody (ab31478)



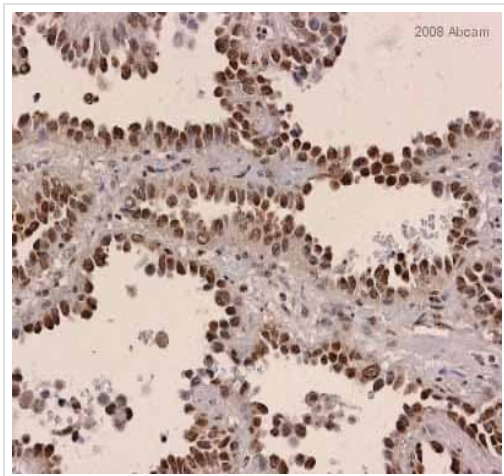
Western blot - Anti-Estrogen Receptor alpha (phospho S167) antibody (ab31478)

All lanes : Anti-Estrogen Receptor alpha (phospho S167) antibody (ab31478) at 1/500 dilution

Lane 1 : HeLa cells treated with EGF

Lane 2 : Untreated HeLa cell lysate

Predicted band size: 68 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Estrogen Receptor alpha (phospho S167) antibody (ab31478)

This image is courtesy of an anonymous Abreview

ab31478 staining human non-small cell lung cancer tissue sections by IHC-P. Sections were formaldehyde fixed and subjected to heat mediated antigen retrieval in 10 mM sodium citrate (pH 6) prior to blocking with a commercially available blocking reagent for 20 minutes at 22°C. The primary antibody was diluted 1/200 and incubated with the sample for 24 hours at 4°C. A HRP conjugated antibody was used as the secondary.

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