abcam

Product datasheet

Anti-Estrogen Receptor alpha (phospho S102) antibody ab111917

1 Image

Overview

Product name	Anti-Estrogen Receptor alpha (phospho S102) antibody
Description	Rabbit polyclonal to Estrogen Receptor alpha (phospho S102)
Host species	Rabbit
Specificity	ab111917 detects endogenous levels of Estrogen Receptor alpha only when phosphorylated at serine 102.
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide corresponding to Human Estrogen Receptor alpha aa 71-120. Synthetic phosphopeptide derived from Human Estrogen Receptor alpha around the phosphorylation site of serine 102 (L-N-SP-V-S). Database link: **P03372**
Positive control	Human Breast carcinoma tissue.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol, 0.88% Sodium chloride
Purity	Immunogen affinity purified
Purification notes	ab111917 was affinity-purified from Rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site
Clonality	Polyclonal
Isotype	IgG

Applications

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab111917 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
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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.

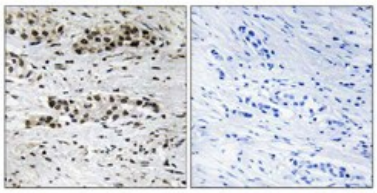
Sequence similarities Belongs to the nuclear hormone receptor family. NR3 subfamily.
Contains 1 nuclear receptor DNA-binding domain.

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



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Estrogen Receptor alpha (phospho S102) antibody (ab111917)

ab111917 at 1/50 dilution staining Estrogen Receptor alpha in paraffin-embedded Human Breast carcinoma tissue by Immunohistochemistry. The image on the right is treated with the synthesized phosphopeptide.

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