abcam

Product datasheet

Anti-Estrogen Receptor alpha antibody ab51126

2 Images

Overview

Product name	Anti-Estrogen Receptor alpha antibody
Description	Rabbit polyclonal to Estrogen Receptor alpha
Host species	Rabbit
Specificity	ab51126 detects endogenous levels of total Estrogen Receptor alpha protein.
Tested applications	**Suitable for:** IHC-P, WB, ELISA
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse
Immunogen	Synthesized non-phosphopeptide derived from human Estrogen Receptor alpha around the phosphorylation site of serine 104/106 (V-S^P-P-S^P-P).
Positive control	Human breast carcinoma tissue; extracts from MCF7 cells.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg^{2+} and Ca^{2+}), 150mM Sodium chloride, pH 7.4
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab51126 in the following tested applications.

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

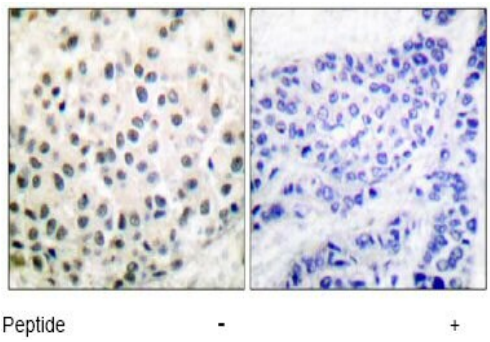
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 68 kDa (predicted molecular weight: 68 kDa).
ELISA		1/20000.

Target

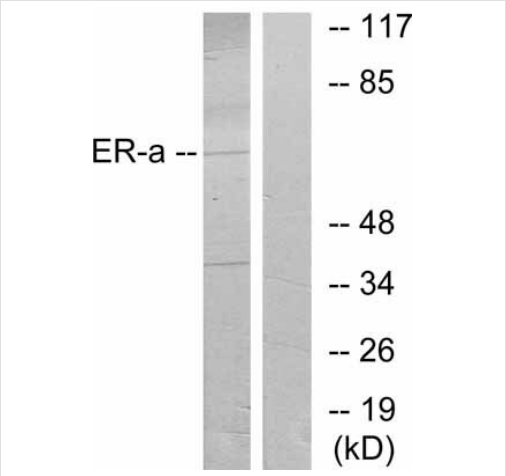
Function	Nuclear hormone receptor. The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Can activate the transcriptional activity of TFF1.
Sequence similarities	Belongs to the nuclear 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 antibody (ab51126)

This image shows paraffin-embedded human breast carcinoma tissue stained with ab51126 at a dilution of 1/50. Right hand image: sample treated with immunising peptide; left hand image: untreated sample.



Western blot - Anti-Estrogen Receptor alpha antibody (ab51126)

All lanes : Anti-Estrogen Receptor alpha antibody (ab51126)

Lane 1 : MCF7 Lysates from estradiol-treated cells.
Lane 2 : MCF7 Lysates from estradiol-treated cells. Primary antibody pre-icubated with immunizing (blocking) peptide.

Predicted band size: 68 kDa

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