Product datasheet

Anti-Estrogen Receptor alpha antibody ab75635

★★★★★ 3 Abreviews  9 References  5 Images

Overview

Product name
Anti-Estrogen Receptor alpha antibody

Description
Rabbit polyclonal to Estrogen Receptor alpha

Host species
Rabbit

Tested applications
Suitable for: ICC/IF, WB, IP, IHC-P

Species reactivity
Reacts with: Mouse, Rat, Sheep, Rabbit, Cow, Human, Pig

Immunogen
A synthetic peptide from the N terminus of human Estrogen Receptor alpha.

Positive control
MCF7 cell lysate and Breast carcinoma tissue. This antibody gave a positive result when used in the following formaldehyde fixed cell lines: HepG2

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.

Storage buffer
Preservative: 0.09% Sodium Azide
Constituents: 0.2% BSA, 10mM PBS, pH 7.4

Purity
Protein A purified

Clonality
Polyclonal

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab75635 in the following tested applications.

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

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 10 µg/ml.</td>
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<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 2.5 - 5 µg/ml. Detects a band of approximately 68 kDa (predicted molecular weight: 68 kDa).</td>
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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
ab75635 at 20µg/ml dilution staining Estrogen Receptor alpha in breast carcinoma by Immunohistochemistry, Formalin-fixed, Paraffin-embedded tissue using peroxidase-conjugate and AEC chromogen.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Estrogen Receptor alpha antibody (ab75635)
Immunocytochemistry/ Immunofluorescence - Anti-Estrogen Receptor alpha antibody (ab75635)

ICC/IF image of ab75635 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab75635 at 10µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (ab96899) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Estrogen Receptor alpha antibody (ab75635)

Immunohistochemical analysis of Capybara testis tissue, labeling Estrogen receptor alpha with ab75635, diluted 1/1000. Heat mediated antigen retrieval with Citrate buffer pH 6, blocked with BSA.

Immunoprecipitation - Anti-Estrogen Receptor alpha antibody (ab75635)

Staining of Estrogen Receptor alpha in MCF7 cell lysate immunoprecipitated using ab75635 at 10µg/mg lysate.
Anti-Estrogen Receptor alpha antibody (ab75635) at 5 µg/ml + MCF7 cell lysate

**Predicted band size:** 68 kDa

**Observed band size:** 68 kDa

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