Anti-Estrogen Receptor alpha antibody ab3575

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, Flow Cyt, ICC, IHC-P
Species reactivity: Reacts with: Mouse, Rat, Human, Pig, Deer
Predicted to work with: Hamster, Cow, Cat
Immunogen: Synthetic peptide corresponding to Human Estrogen Receptor alpha aa 21-32.

Sequence:
NELEPLNRQLK

Database link: P03372
(Peptide available as ab5847)

Positive control:
ICC: Human coronary artery smooth muscle cells (See Han et al). IHC-P: Rat prostate tissue. ICC/IF: T-47D cells. This antibody gave a positive result in IHC in the following FFPE tissue: Human breast ductal carcinoma

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer: Preservative: 0.05% Sodium azide
Constituents: 0.1% BSA, 99% PBS
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab3575 in the following tested applications.
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

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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 0.5 mg/ml.</td>
</tr>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Detects a band of approximately 64 kDa (predicted molecular weight: 68 kDa). Can be blocked with Human Estrogen Receptor alpha peptide (ab5847).</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 23768049. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>ICC</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>IHC-P</td>
<td>★★★★★☆</td>
<td>Use a concentration of 1 - 5 µg/ml.</td>
</tr>
</tbody>
</table>

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
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Post-translational modifications

Cellular localization
IHC image of Estrogen Receptor alpha staining in human breast ductal carcinoma formalin fixed paraffin embedded tissue section, performed on a Leica BondTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6, epitope retrieval solution 1) for 20 minutes. The section was then incubated with ab3575, 5 µg/ml, for 15 minutes at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

ab3575 at a dilution of 5 µg/ml staining ER alpha in rat prostate tissue sections.

**Western blot** - Anti-Estrogen Receptor alpha antibody (ab3575) at 1/1000 dilution

**Lane 1** : Recombinant full-length human Estrogen Receptor alpha protein, 250 ng

**Lane 2** : Recombinant full-length human Estrogen Receptor alpha protein, 125 ng

**Lane 3** : Recombinant full-length human Estrogen Receptor alpha protein, 62.5 ng

**Lane 4** : Recombinant full-length human Estrogen Receptor alpha protein, 31.25 ng

**Secondary**

**All lanes** : HRP-conjugated goat anti-rabbit IgG at 1/40000 dilution

Developed using the ECL technique.

**Predicted band size**: 68 kDa
Blocked with 5% milk in TBST for at least 1 hour at room temperature.

4% paraformaldehyde fixed 0.1% Triton permeabilized T-47D (human ductal breast epithelial tumor cell line) and negative control line Hs 578T cells stained for Estrogen Receptor alpha (green) using ab3575 (1/2000) in ICC/IF. DyLight 488-conjugated goat anti-rabbit IgG at 1/500.

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