

Product datasheet

Anti-Estrogen Receptor alpha antibody [CRET94D] ab241557

Recombinant

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Overview

Product name	Anti-Estrogen Receptor alpha antibody [CRET94D]
Description	Mouse monoclonal [CRET94D] to Estrogen Receptor alpha
Host species	Mouse
Tested applications	Suitable for: IHC-P, WB
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human breast cancer tissue, mouse breast tissue and mouse ovary tissue lysates. IHC: Human breast carcinoma and mouse breast tissue.
General notes	<p>This product has switched from a hybridoma to recombinant production method on 07th December 2020.</p> <p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p>

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 long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number	CRET94D
Isotype	IgG1
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab241557 in the following tested applications.

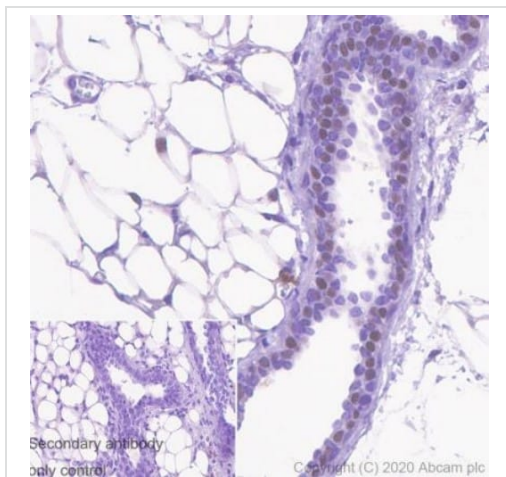
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/1000. Predicted molecular weight: 66 kDa.

Target

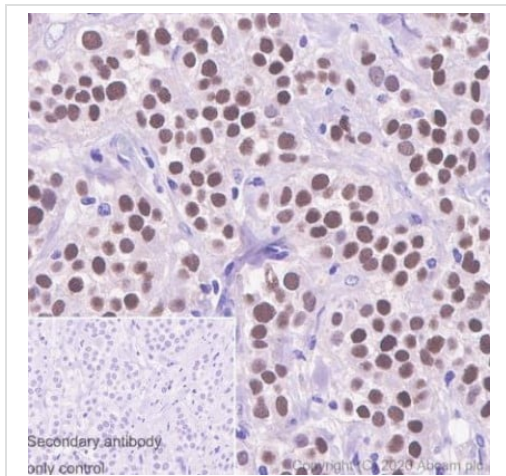
Function	Nuclear hormone receptor. The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Can activate the transcriptional activity of TFF1.
Sequence similarities	Belongs to the nuclear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



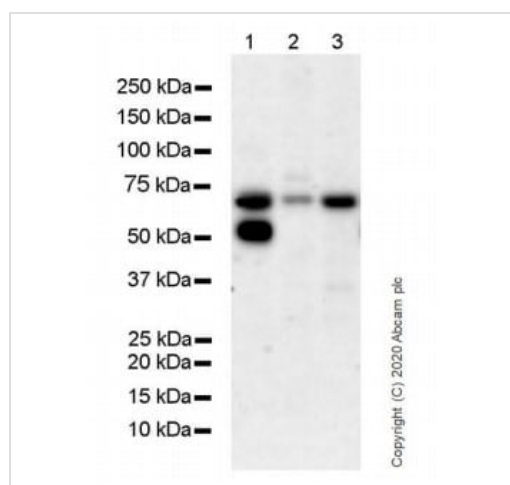
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Estrogen Receptor alpha antibody [CRET94D] (ab241557)

Immunohistochemical analysis of paraffin-embedded mouse breast labeling Estrogen Receptor with **ab252794** at 1/1000 dilution followed by LeicaDS9800 (Bond™ Polymer Refine Detection). The section was incubated with **ab252794** for 30 mins at room temperature and blocking mouse IgG by specific antibody (**ab133469**, 1:5000) for 8 mins. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Estrogen Receptor alpha antibody [CRET94D] (ab241557)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma and mouse breast tissues labeling Estrogen Receptor with **ab252794** at 1/1000 dilution followed by LeicaDS9800 (Bond™ Polymer Refine Detection). The section was incubated with **ab252794** for 30 mins at room temperature and blocking mouse IgG by specific antibody (**ab133469**, 1:5000) for 8 mins. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with hematoxylin. 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.



Western blot - Anti-Estrogen Receptor alpha antibody [CRET94D] (ab241557)

All lanes : Anti-Estrogen Receptor alpha antibody [CRET94D] (ab241557) at 1/1000 dilution

Lane 1 : Human breast cancer tissue lysates

Lane 2 : Mouse breast tissue lysates

Lane 3 : Mouse ovary tissue lysates

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Anti-mouse IgG for IP (HRP) (**ab131368**)

Predicted band size: 66 kDa

Observed band size: 66 kDa

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