

Product datasheet

Biotin Anti-Estrogen Receptor antibody [ESR1/3373]
ab271815

3 Images

Overview

Product name	Biotin Anti-Estrogen Receptor antibody [ESR1/3373]
Description	Biotin Mouse monoclonal [ESR1/3373] to Estrogen Receptor
Host species	Mouse
Conjugation	Biotin
Tested applications	Suitable for: IHC-P, Protein Array
Species reactivity	Reacts with: Human
Immunogen	Recombinant full length protein corresponding to Human Estrogen Receptor aa 1-595. Sequence: MTMTLHTKASGMALLHQIQGNELEPLNRPQLKIPLERPLGE VYLDSSKPA VYNYPEGAAAYEFNAAAAANAQVYGQTGLPYGPGSEAAAF GSNGLGGFPPL NSVSPSPLMLLHPPPQLSPFLQPHGQQVPYYLENEPSGY TVREAGPPAFY RPNSDNRRQGGRERLASTNDKGSMAKESAKETRYCAVC NDYASGYHYGVW SCEGCKAFFKRSIQGHNDYMCPATNQCTIDKNRRKSCQA CRLRKCYEVGM MKGKIRKDRRGGRMLKHKRQRDDGEGRGEVGSAGDMR AANLWPSPLMIKR SKKNSLALSLTADQMVSALLDAEPPILYSEYDPTRPFSEA SMMGLLTNLA DRELVHMINWAKRVPGFVDLTLHDQVHLLCAWLEILMIG LVWRSMEHPG KLLFAPNLLLDRNQGKCVEGMVEIFDMLLATSSRFRMMNL QGEEFVCLKS ILLNSGVYTFLSSTLKSLEEKDHIHRVLDKITDTLIHLMKAG LTLQQQ HQRLAQLLLILSHIRHMSNKGMEHLYSMKCKNVVPLYDLLL EMLDAHRLH APTSTRGGASVEETDQSHLATAGSTSSHSLQKYITGEAEG FPATV

Database link: [P03372](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

Positive control

IHC-P: Human breast carcinoma

General notes

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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: 0.05% Sodium azide Constituents: PBS, 0.05% BSA
Purity	Protein A/G purified
Purification notes	Purified from Bioreactor Concentrate.
Clonality	Monoclonal
Clone number	ESR1/3373
Isotype	IgG2a
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab271815** in the following tested applications.

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

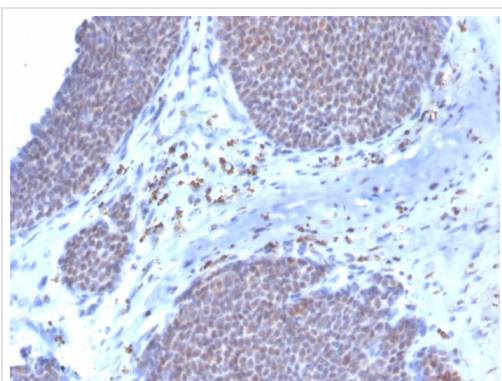
Application	Abreviews	Notes
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Application	Abreviews	Notes
IHC-P		Use a concentration of 2 - 4 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Protein Array		Use at an assay dependent concentration.

Target

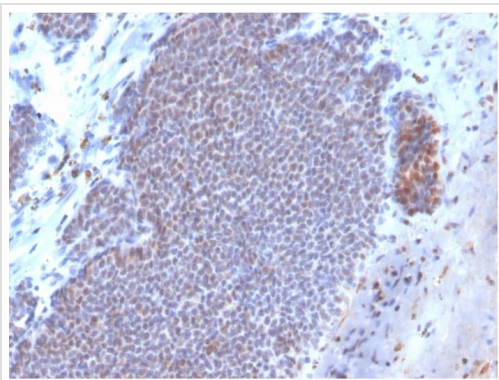
Function	Nuclear hormone receptor. The steroid hormones and their receptors are involved in the regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Can activate the transcriptional activity of TFF1.
Sequence similarities	Belongs to the nuclear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



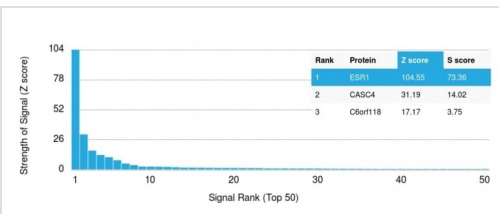
Formalin-fixed, paraffin-embedded human breast carcinoma stained for estrogen receptor- α using ab271815 at 4µg/mL in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Biotin Anti-Estrogen Receptor antibody [ESR1/3373] (ab271815)



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Protein Array - Biotin Anti-Estrogen Receptor antibody [ESR1/3373] (ab271815)

Analysis of Protein Array containing more than 19,000 full-length human proteins using ab271815.

Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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