

Product datasheet

Anti-Aromatase antibody ab35604

★★★★★ 5 Abreviews 13 References 2 Images

Overview

Product name	Anti-Aromatase antibody
Description	Rabbit polyclonal to Aromatase
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Rabbit, Dog
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 450 to the C-terminus of Human Aromatase. Read Abcam's proprietary immunogen policy (Peptide available as ab35661 .)
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>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, along with publications, customer reviews and Q&As</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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab35604 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
WB	★★★★★ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 55 kDa (predicted molecular weight: 58 kDa).

Target

Function

Catalyzes the formation of aromatic C18 estrogens from C19 androgens.

Tissue specificity

Brain, placenta and gonads.

Involvement in disease

Defects in CYP19A1 are a cause of aromatase excess syndrome (AEXS) [MIM:139300]; also known as familial gynecomastia. AEXS is characterized by an estrogen excess due to an increased aromatase activity.

Defects in CYP19A1 are the cause of aromatase deficiency (AROD) [MIM:107910]. AROD is a rare disease in which fetal androgens are not converted into estrogens due to placental aromatase deficiency. Thus, pregnant women exhibit a hirsutism, which spontaneously resolves after post-partum. At birth, female babies present with pseudohermaphroditism due to virilization of external genital organs. In adult females, manifestations include delay of puberty, breast hypoplasia and primary amenorrhoea with multicystic ovaries.

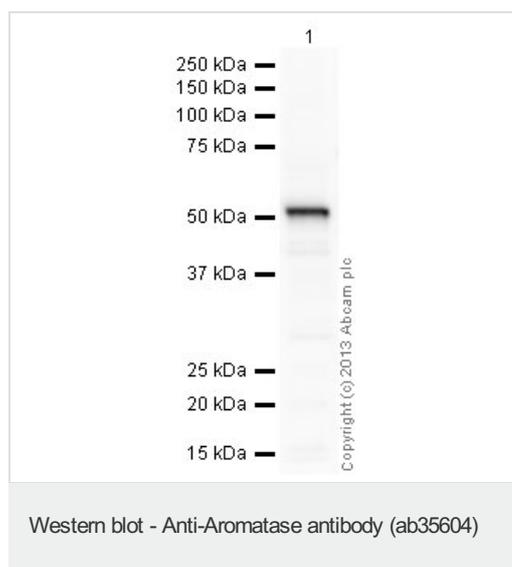
Sequence similarities

Belongs to the cytochrome P450 family.

Cellular localization

Membrane.

Images



Anti-Aromatase antibody (ab35604) at 1 µg/ml + Human placenta tissue lysate - total protein ([ab29745](#)) at 20 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

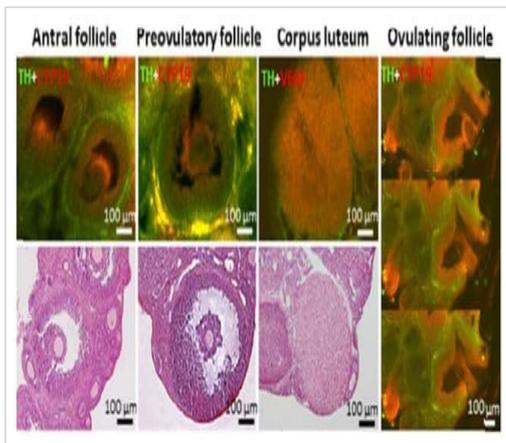
Performed under reducing conditions.

Predicted band size: 58 kDa

Observed band size: 55 kDa

Exposure time: 150 seconds

This blot was produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab35604 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.



Immunohistochemical analysis of adult proestrous mouse ovarian follicles staining CYP19/aromatase with ab35604, and VEGFA with ab46154. Staining of follicles at different stages using specific markers (upper panels) together with histological pictures using hematoxylin and eosin staining (lower panels).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Aromatase antibody (ab35604)

Courtesy of Feng Y et al. Sci Rep. 2017; 7: 44810. doi: 10.1038/srep44810 Reproduced under the Creative Commons license <http://creativecommons.org/licenses/by/4.0/>.

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