Product Datasheet

Aromatase Antibody
NB100-1596

Unit Size: 0.1 ml
Store at 4C. Do not freeze.

Publications: 5
Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB100-1596

Updated 2/11/2018 v.20.1

Earn rewards for product reviews and publications.
Submit a publication at www.novusbio.com/publications
Submit a review at www.novusbio.com/reviews/destination/NB100-1596
# NB100-1596

## Aromatase Antibody

### Product Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit Size</td>
<td>0.1 ml</td>
</tr>
<tr>
<td>Concentration</td>
<td>1.0 mg/ml</td>
</tr>
<tr>
<td>Storage</td>
<td>Store at 4C. Do not freeze.</td>
</tr>
<tr>
<td>Clonality</td>
<td>Polyclonal</td>
</tr>
<tr>
<td>Preservative</td>
<td>0.1% Sodium Azide</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
<tr>
<td>Purity</td>
<td>Immunogen affinity purified</td>
</tr>
<tr>
<td>Buffer</td>
<td>Tris-Citrate/Phosphate (pH 7.0 - 8.0)</td>
</tr>
<tr>
<td>Target Molecular Weight</td>
<td>55 kDa</td>
</tr>
</tbody>
</table>

### Product Description

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Host</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Gene ID</td>
<td>1588</td>
</tr>
<tr>
<td>Gene Symbol</td>
<td>CYP19A1</td>
</tr>
<tr>
<td>Species</td>
<td>Human, Primate, Rabbit</td>
</tr>
<tr>
<td>Reactivity Notes</td>
<td>Human and Primate. Rabbit reactivity reported in scientific literature (PMID: 25850953) Immunogen has 91% homology to horse, 90% homology to cow and rabbit, 83% homology to pig, and 81% homology to sheep, goat, and dog proteins.</td>
</tr>
<tr>
<td>Immunogen</td>
<td>A synthetic peptide made to a C-terminal portion of the human Aromatase protein (between residues 400-502). [UniProt# P11511]</td>
</tr>
</tbody>
</table>

### Product Application Details

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications</td>
<td>Western Blot, Immunocytochemistry/Immunofluorescence, Immunohistochemistry</td>
</tr>
<tr>
<td>Recommended Dilutions</td>
<td>Western Blot 1 ug/ml, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:100</td>
</tr>
<tr>
<td>Application Notes</td>
<td>This Aromatase antibody is useful for Immunocytochemistry/Immunofluorescence and Western blot. In Western blot a band is seen at ~55 kDa in human brain, and Immunocytochemistry/Immunofluorescence where membrane staining is observed in SH-SY-5Y cells. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors. Use in Immunohistochemistry reported in scientific literature (PMID 28133606).</td>
</tr>
</tbody>
</table>
Western Blot: Aromatase Antibody [NB100-1596] - Detection of aromatase in human fetal temporal lobe lysate using NB 100-1596. ECL exposure, 1-2 minutes.

Immunocytochemistry/Immunofluorescence: Aromatase Antibody [NB100-1596] - Aromatase antibody was tested in SH-SY-5Y cells with Dylight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and Dylight 550 (red).

Publications


Pignatti E, Casarini L, Scaltriti S et al. Aromatase expression in human peripheral blood leucocytes (PBLs) and in various tissues in primates: studies in elderly humans and cynomolgus monkeys J Med Primatol 2012 Sep 17 [PMID: 22978812] (WB, Human, Primate)


Procedures

Western Blot Protocol for Aromatase Antibody (NB100-1596)

Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 20 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk + 1% BSA in TBS for 2 hours at room temperature.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-Aromatase primary antibody (NB 100-1596) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce's ECL). Viewed band in 1-2 minutes of exposure.

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05 -0.2%, provided it does not interfere with antibody-antigen binding.

Immunocytochemistry/Immunofluorescence Protocol for Aromatase Antibody (NB100-1596)

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.
Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB100-1596

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications