

# Product Datasheet

## ER beta/NR3A2 Antibody - BSA Free NBP2-81132

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP2-81132**

ER beta/NR3A2 Antibody - BSA Free

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS

**Product Description**

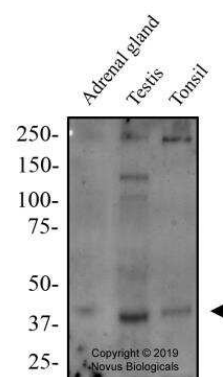
<b>Host</b>	Rabbit
<b>Gene ID</b>	2100
<b>Gene Symbol</b>	ESR2
<b>Species</b>	Human
<b>Immunogen</b>	Partial recombinant human ER beta/NR3A2 protein (amino acids 1-153) [UniProt Q92731]

**Product Application Details**

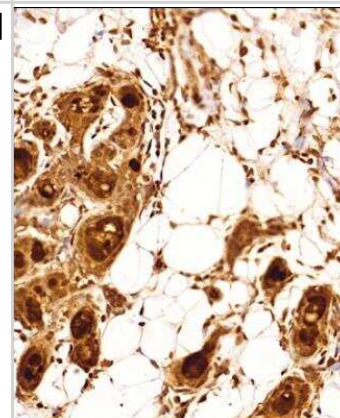
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 2 ug/ml, Immunohistochemistry 1:200, Immunohistochemistry-Paraffin 1:200

**Images**

**Western Blot:** ER beta/NR3A2 Antibody [NBP2-81132] - Total protein from human Adrenal gland, testis and tonsil was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-ER Beta in blocking buffer and detected with an anti-rabbit HRP secondary antibody using West Pico PLUS chemiluminescence detection reagent.



**Immunohistochemistry-Paraffin:** ER beta/NR3A2 Antibody [NBP2-81132] - ER beta / NR3A2 was detected in paraffin-embedded sections of human breast carcinoma tissue using 1:200 Rabbit Anti-Human ER beta / NR3A2 Antigen Affinity-purified Polyclonal Antibody (Catalog # NBP2-81132) overnight at 4 degrees C. Before incubation with the primary antibody tissue was subjected to heat-induced epitope retrieval using sodium citrate buffer (pH 6.0). Tissue was staining with DAB and counterstained with hematoxylin.





## Procedures

### Immunohistochemistry-Paraffin protocol for ER beta/NR3A2 Antibody (NBP2-81132)

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#### Immunohistochemistry-Paraffin Embedded Sections

##### Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

##### Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4 C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

### Western Blot protocol for ER beta/NR3A2 Antibody (NBP2-81132)

ER beta/NR3A2 Antibody: [https://www.novusbio.com/products/er-beta-nr3a2-antibody\\_nbp2-81132](https://www.novusbio.com/products/er-beta-nr3a2-antibody_nbp2-81132)

#### Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 10-25 ug of total protein per lane.
2. Transfer proteins to PVDF membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain the membrane with Ponceau S (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot TBS -0.05% Tween 20 (TBST).
5. Block the membrane in 5% Non-fat milk in TBST (blocking buffer) for at least 1 hour.
6. Wash the membrane in TBST three times for 10 minutes each.
7. Dilute anti-ER beta/NR3A2 primary antibody in blocking buffer and incubate overnight at 4C with gentle rocking.
8. Wash the membrane in TBST three times for 10 minutes each.
9. Incubate the membrane in diluted HRP conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) for 1 hour at room temperature.
10. Wash the blot in TBST three 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.





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### **Products Related to NBP2-81132**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
H00002100-P01-2ug	Recombinant Human ER beta/NR3A2 GST (N-Term) Protein
DY262	Amphiregulin [Biotin]

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### **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.

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