

# Product Datasheet

## ER alpha/NR3A1 Antibody - BSA Free NBP1-84827

Unit Size: 0.1 ml

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

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### Publications: 3

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**NBP1-84827**

ER alpha/NR3A1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

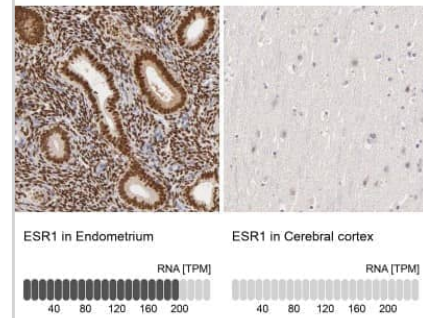
Product Description	
Description	Novus Biologicals Rabbit ER alpha/NR3A1 Antibody - BSA Free (NBP1-84827) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-ER alpha/NR3A1 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	2099
Gene Symbol	ESR1
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (88%), Rat (87%).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: FGSNGLGFPPLNSVSPSPLMLLHPPPQLSPFLQPHGQQVPYYLENEPSGYTV REAGPPAFYRPNSDNRRQGGRELRLASTNDKGSMMAMESAKETRYCAVCNDYA SGYHYGVWSCEGCKAFFKRSIQGHNDYMCPATNQCTID

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:20 - 1:50, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:20 - 1:50, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

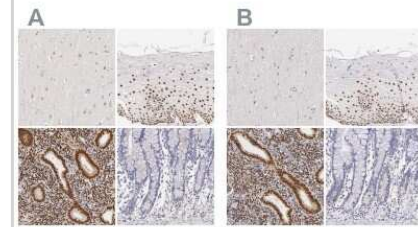


## Images

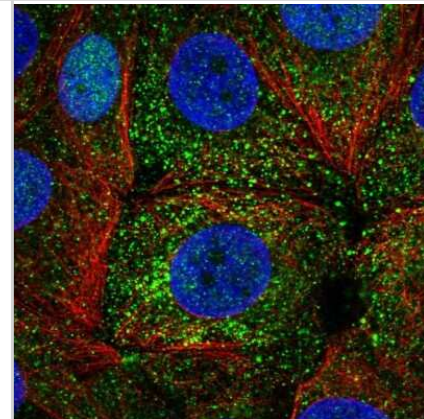
Immunohistochemistry-Paraffin: ER alpha/NR3A1 Antibody [NBP1-84827] - Analysis in human endometrium and cerebral cortex tissues. Corresponding ER alpha/NR3A1 RNA-seq data are presented for the same tissues.



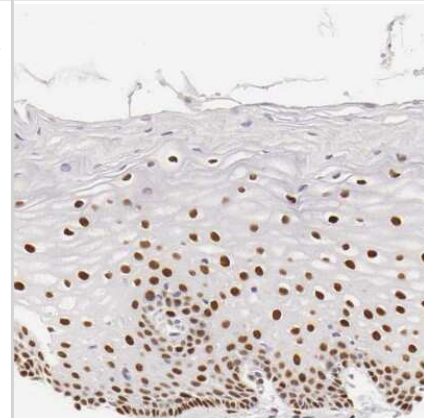
Immunohistochemistry-Paraffin: ER alpha/NR3A1 Antibody [NBP1-84827] - Staining of human cerebral cortex, cervix, uterine, endometrium and gastrointestinal using Anti-ER alpha/NR3A1 antibody NBP1-84827 (A) shows similar protein distribution across tissues to independent antibody NBP1-84826 (B).



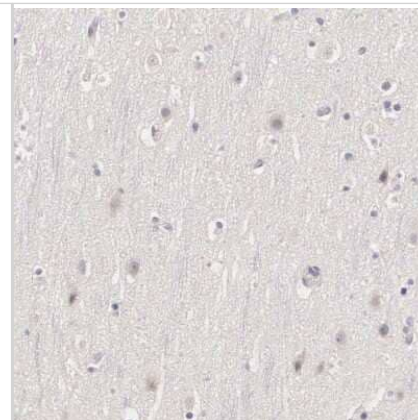
Immunocytochemistry/Immunofluorescence: ER alpha/NR3A1 Antibody [NBP1-84827] - Staining of human cell line MCF7 shows localization to nucleus & vesicles. Antibody staining is shown in green.



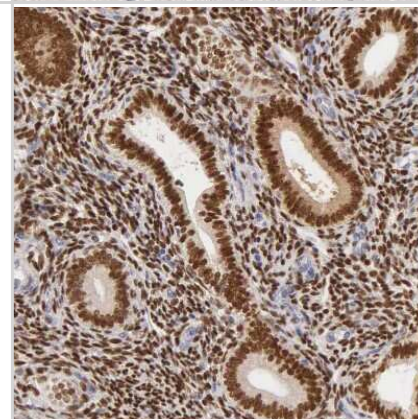
Immunohistochemistry-Paraffin: ER alpha/NR3A1 Antibody [NBP1-84827] - Staining of human uterine cervix shows strong nuclear positivity in squamous epithelial cells.



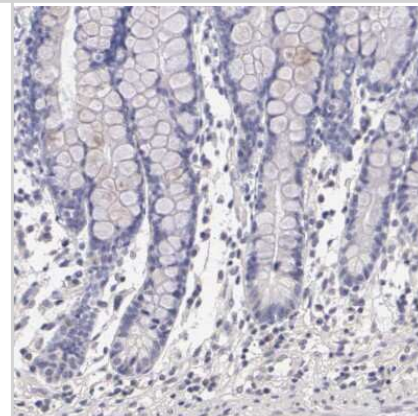
Immunohistochemistry-Paraffin: ER alpha/NR3A1 Antibody [NBP1-84827] - Staining of human cerebral cortex shows no positivity in neurons as expected.



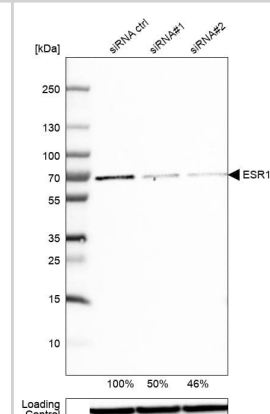
Immunohistochemistry-Paraffin: ER alpha/NR3A1 Antibody [NBP1-84827] - Staining of human endometrium shows strong nuclear positivity in glandular cells.



Immunohistochemistry-Paraffin: ER alpha/NR3A1 Antibody [NBP1-84827] - Staining of human small intestine shows no positivity in glandular cells as expected.



Analysis in MCF-7 cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-ESR1 antibody. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



## Publications

Oelschläger L, Stahl P, Kaschani F et al. Taspase1 Facilitates Topoisomerase II?-Mediated DNA Double-Strand Breaks Driving Estrogen-Induced Transcription Cells 2023-01-18 [PMID: 36766705]

Torres-Lopez L, Maycotte P, Linan-Rico A et al. Tamoxifen induces toxicity, causes autophagy, and partially reverses dexamethasone resistance in Jurkat T cells J Leukoc Biol 2019-01-16 [PMID: 30645008] (WB, Human)

Algenas C, Agaton C, Fagerberg L et al. Antibody performance in western blot applications is context-dependent. Biotechnol J 2014-03-01 [PMID: 24403002]





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### **Products Related to NBP1-84827**

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NBP1-84827PEP	ER alpha/NR3A1 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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