

Datasheet for 600-401-BB9**ESR1 Antibody****Overview**

Description:	Anti-ESR1 (RABBIT) Antibody - 600-401-BB9
Item No.:	600-401-BB9
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Estrogen receptors (ER) are members of the steroid/thyroid hormone receptor superfamily of ligand-activated transcription factors (1). Estrogen receptors, including ESR1, also known as ER-alpha and ESR2 (ER-beta), contain DNA binding and ligand binding domains and are critically involved in regulating the normal function of reproductive tissues. ESR1 is a widely expressed nuclear protein and serves as a strong activator of estrogen responsive genes (1,2). Phosphorylation of serines 104 and 106, located in the N-terminal transcription activation function-1 domain (AF-1), plays a large role in regulating ER alpha activity (3).
Synonyms:	ESR1 Antibody, ER, ESR, Era, ESRA, ESTRR, NR3A1, Estrogen receptor, ER-alpha, ER
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ESR1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-ESR1 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the internal region of human ESR1.

Purity/Specificity: Anti-ESR1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. ESR1 antibody is human, mouse and rat reactive.

Relevant Links:

- [UniProtKB - P03372](#)
- [GeneID - 2099](#)
- [NCBI - NP_001116214](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-ESR1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 66 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000-1:20,000

IF: User Optimized

IHC: User Optimized

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/ml by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

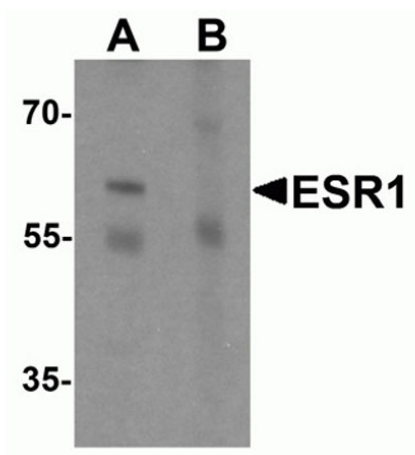
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration:

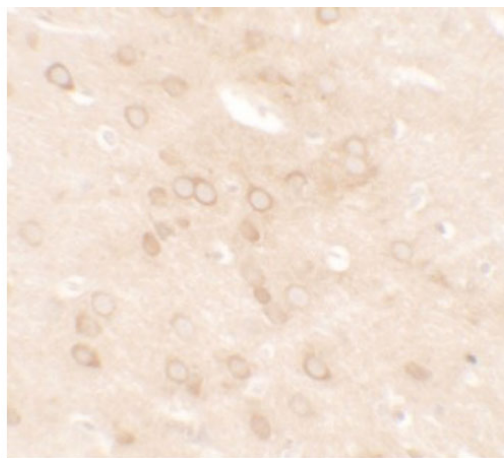
Expiration date is one (1) year from date of receipt.

Images**Western Blot**

Western blot of ESR1.

Load: rat brain tissue lysate.

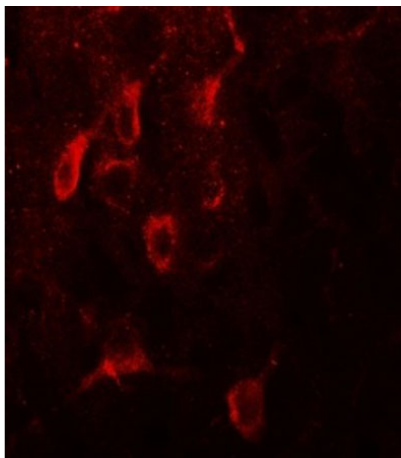
Primary Antibody: ESR1 antibody at 1 μ g/mL in (A) the absence and (B) the presence of blocking peptide.

**Immunohistochemistry**

Immunohistochemistry of ESR1.

Tissue: rat brain tissue.

Primary Antibody: ESR1 antibody at 5 μ g/mL.

**Immunofluorescence Microscopy**

Immunofluorescence of ESR1.

Tissue: rat brain tissue.

Primary Antibody: ESR1 antibody at 20 µg/mL.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.