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

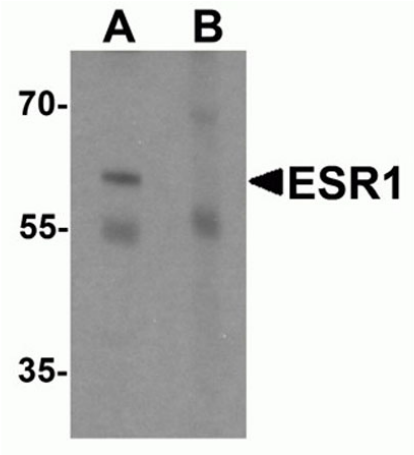
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

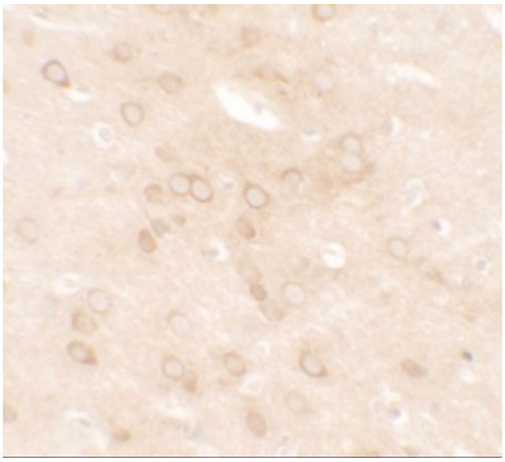
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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.

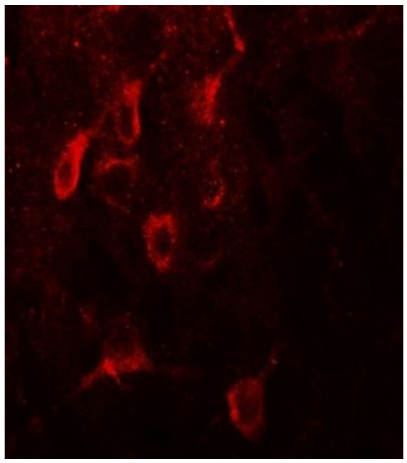
Images



Western Blot
Western blot of ESR1.
Load: rat brain tissue lysate.
Primary Antibody: ESR1 antibody at 1 µg/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 µg/mL.



Immunofluorescence Microscopy
Immunofluorescence of ESR1.
Tissue: rat brain tissue.
Primary Antibody: ESR1 antibody at 20 µg/mL.

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