Estrogen Receptor Alpha Antibody

Rabbit Polyclonal

Antigen Affinity Purified Protein ID P03372
Catalog No. A300–495A GeneID 2099

Lot No. A300-495A-1

APPLICATIONS IP, IHC, ChIP–Seq

SPECIES REACTIVITY Human

PRESUMED REACTIVITY Based on 100% sequence identity, this antibody is predicted to react with Mouse and Rat

AMOUNT 100 μl

CONCENTRATION 1000 μg/ml

STORAGE/SHELF LIFE 2 - 8° C / 1 year from date of receipt

PHYSICAL STATE Liquid

BUFFER Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide

ISOTYPE IgG
ORIGIN USA

PRODUCTION Antibody was affinity purified using an epitope specific to Estrogen Receptor Alpha immobilized

PROCEDURES on solid support.

The epitope recognized by A300–495A maps to a region between residues 1 and 50 of human Estrogen Receptor Alpha using the numbering given in SwissProt entry P03372 (GeneID 2099).

Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm

of 1.4 equals 1.0 mg of IgG.

APPLICATIONS Centrifuge tube to remove product from lid. Optimal working dilutions should be determined

experimentally by the investigator. Prepare working dilution immediately before use.

Western Blot Not recommended. Use rabbit anti-Estrogen Receptor Alpha antibody

A300-498A.

Immunoprecipitation $3 - 5 \mu g/mg$ lysate

Immunohistochemistry 1:1,000 - 1:5,000. Epitope retrieval with Tris-EDTA pH 9.0 is

recommended for FFPE tissue sections.

ChIP-Seq ChIP-Seq 4 μ g/30 μ g chromatin

APPLICATION NOTES Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020),

Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-8% SDS-PAGE

(link to IP-western blot protocol in Additional Info section below).

IHC HUMAN CONTROLS Breast, Breast Carcinoma

ADDITIONAL INFO https://www.bethyl.com/product/A300-495A

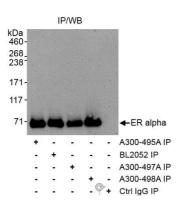
Use the link above to view SDS, a current list of citations, and other product specific information.

IP-western blot protocol: https://www.bethyl.com/content/protocol_IP_WB

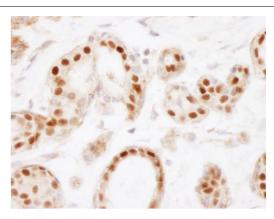
This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc. Eric McIntush, PhD | Chief Scientific Officer

Date: June 21, 2019

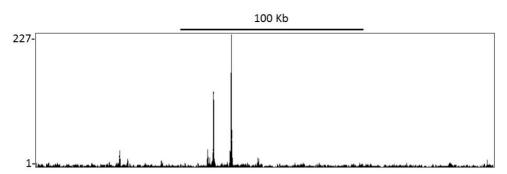




Detection of human Estrogen Receptor Alpha by immunoprecipitation. Samples: Whole cell lysate (1 mg for IP, 1/4 of IP loaded) from MCF-7 cells. Antibodies: Affinity purified rabbit anti-ER alpha antibodies A300-495A (lot A300-495A-1), BL2052, A300-497A, and A300-498A each used at 3 μ g/mg lysate for IP. Estrogen receptor alpha was blotted using A300-498A at 0.1 μ g/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



Detection of human Estrogen Receptor Alpha by immunohistochemistry. Sample: FFPE section of human breast. Antibody: Affinity purified rabbit anti-Estrogen Receptor Alpha (Cat. No. A300-495A) used at a dilution of 1:2,500 (0.4µg/ml). Detection: DAB



Localization of Estrogen Receptor Alpha Binding Sites by ChIP-sequencing. Chromatin from treated MCF-7 cells was immunoprecipitated with anti-Estrogen Receptor Alpha antibody A300-495A and analyzed by DNA sequencing. The figure illustrates the peak distribution of Estrogen Receptor Alpha binding within a 250 Kb region of chromosome 21 as detected using anti-Estrogen Receptor Alpha antibody A300-495A. ChIP-seq validation performed by Active Motif, Carlsbad, CA.