

anti-Human ER (Estrogen receptor) Monoclonal Antibody | anti-ER antibody

Anti - ER (Estrogen receptor)

CATALOG # AAA14931	REACTIVITY Human	APPLICATIONS Immunohistochemistry
------------------------------	----------------------------	---

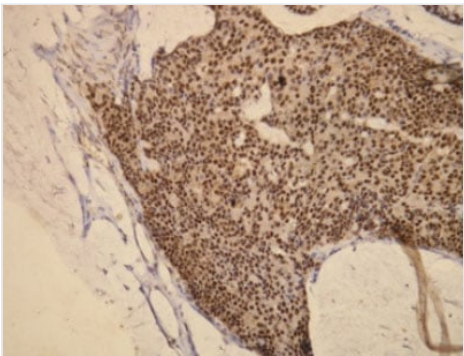
PRODUCT SYNONYMS

ER (Estrogen receptor); Monoclonal Antibody; Anti - ER (Estrogen receptor); anti-ER antibody

PRODUCT SPECIFICATIONS

Reactivity	Human
Clonality	Monoclonal
Clone Number	S21-V
Specificity	Human
Form/Format	20 mM Tris-HCl, pH 8.0
Sequence Length	595
Applicable Applications for anti-ER antibody	IHC (Immunohistochemistry)
Application Notes	IHC-P: Ready to use IHC-P Protocol- INSTRUCTION MANUAL 1. Deparaffinize the section in 3 changes of xylene, 10 minutes each. 2. Wash the section in 96%, 80% and 70% ethyl alcohol for 10 minutes each. 3. Rinse in distilled water, 2 x 5 minutes. 4. Block the endogenous peroxidase by incubating the tissue in 3% hydrogen peroxide (H₂O₂) for 10 minutes. 5. Wash in distilled water, 2 x 5 minutes. 6. For antigen retrieval: Immerse the slide in Tris-EDTA buffer*, pH 9.0 and incubate at 95-97°C in water bath for 25 minutes. 7. Remove the staining to room temperature and let the slide to cool (in Tris-EDTA buffer, pH 9.0) for 15 minutes. 8. Rinse in distilled water, 2 x 5 minutes. 9. Wash in PBS (phosphate buffer saline, pH 7.0-7.5) supplemented with 0.05% of Tween-20 (buffer A), 2 x 5 min. 10. CONCENTRATED: Incubate the section with primary antibody at the dilution 1:100 - 1:200 for 1 hour in the closed wet chamber. - READY TO USE (RTU): Incubate the section with primary antibody (ready to use) for 1 hour in a closed wet chamber. 11. Wash 3 x 5 minutes with buffer A. 12. Apply the secondary antibody (the protocol depends on the supplier), and proceed to standard immunohistochemistry protocol (HRP - Peroxide - DAB). Micropolymer-HRP detection kit rabbit/mouse dual. 13. Wash 3 x 5 minutes with buffer A. 14. Apply the chromogen (DAB), 1 - 3 minutes. 15. Wash in water, 2 x 5 minutes. 16. Stain in hematoxylin for 5 minutes. 17. Wash in distilled water, 3 x 2 minutes. 18. Mount the slide for observation. * Tris-EDTA Buffer (10mM Tris Base, 1mM EDTA solution, 0.05% Tween-20, pH 9.0): Tris ----- 1.21 g; EDTA ----- 0.37 g; Distilled water ----- 1000 ml Mix to dissolve in 700 ml of distilled water. Adjust pH to 9.0 with 1M HCl and then add 0.5 ml of Tween-20 and mix well. Adjust the final volume to 1 liter with distilled water. Store this solution at room temperature for 3 months or at +4°C for longer storage.

Immunogen	Peptide derived from C-terminal sequence of human estrogen receptor alpha. Antibody recognizes the epitope between Gln580 - Thr594.
Stabilizer	20 mg/ml BSA
Cellular Localization	Nuclear membrane, cytoplasm
Positive Control	Human breast tumor tissue
Preservative	0.05% NaN ₃
Precautions	1. We strongly recommend to use Primary Antibody Diluent, eventually alternative diluent (containing protease free BSA at the concentrations $\geq$ 1mg/ml) for dilution of concentrated antibodies. 2. Centrifuge the vial before use. 3. Intended for research use in laboratories. 4. Do not use after expiration date stamped on vial label. 5. Avoid contamination of the reagent. 6. Any discrepancies in the recommended procedures stated in the working protocol may affect the final results. 7. The reagent contains sodium azide (NaN₃) which is highly toxic in higher concentrations. The concentration in the reagent (0.05%) is not considered as hazardous. 8. Disposal of waste material must be conducted in accordance with local regulations. 9. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
Ventana Instruction Manual	Short Application Protocol For Ventana Benchmark Slide Staining System: Procedure: U ultraView DAB 1. Deparaffinization 2. Heating (72 °C) at the medium temperatures. Deparaffinization. 3. Cell conditioning 4. ULTRA conditioner #1 5. Heating glass (95 °C), incubation 8 min. (Cell conditioner #1; buffer CC1). 6. ULTRA CC1 solution application – 52 min. 7. Antibody incubation temperature 8. Heating glass (36 °C), incubation 4 min. 9. Titration 10. Hand apply – primary antibody 100 ?l. Incubation 36 min. 11. ultraWash 12. Nuclear stain 13. Hematoxylin II application – one drop (nuclear stain). Cover and incubate 12 min. 14. After nuclear stain 15. Bluing reagent application, one drop. After nuclear stain, cover and incubate 4 min
Leica Bond Max Protocol	Instruction Manual: Short Application Protocol For Leica Bond Max Slide Staining System Protocol F: 1. Visualization system: BOND Refine DS9800 2. Epitope retrieval / heating time / temperature: ER2 / 20 min. / 100 °C 3. Incubation of primary antibody / temperature: 30 min. / 20 °
Preparation and Storage	Store at +4°C. Do not freeze.



Application Data
Diffuse and strong estrogen receptor expression in mucinous breast carcinoma, stained with anti-ER monospecific antibody. Formalin fixed, paraffin embedded human tissue (4 um section) stained according to related datasheet.

NCBI AND UNIPROT INFORMATION

NCBI GI #	544257
NCBI GeneID	2099
UniProt Accession #	P03372; Q13511; Q14276; Q5T5H7; Q6MZQ9; Q9NU51; Q9UDZ7; Q9UIS7
NCBI Official Full Name	Estrogen receptor
NCBI Official Synonym Full Names	estrogen receptor 1
NCBI Official Symbol	ESR1
NCBI Official Synonym Symbols	ER; ESR; Era; ESRA; ESTRR; NR3A1
NCBI Protein Information	estrogen receptor; ER-alpha; estradiol receptor; estrogen nuclear receptor alpha; estrogen receptor alpha E1-E2-1-2; estrogen receptor alpha E1-N2-E2-1-2; estrogen receptor alpha delta 4 +49 isoform; nuclear receptor subfamily 3 group A member 1; estrogen receptor alpha 3*,4,5,6,7*/822 isoform; estrogen receptor alpha delta 4*,5,6,7*/654 isoform; estrogen receptor alpha delta 4*,5,6,7,8*/901 isoform; estrogen receptor alpha delta 3*,4,5,6,7*/819-2 isoform; estrogen receptor alpha delta 3*,4,5,6,7*,8*/941 isoform
UniProt Protein Name	Estrogen receptor
UniProt Gene Name	ESR1
UniProt Synonym Gene Names	ESR; NR3A1; ER
UniProt Entry Name	ESR1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/er-estrogen-receptor-antibody-clone-s21-v-immunohistochemistry-elisa/14931>