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Anti human ER alpha mouse monoclonal antibody

ER alpha: Estrogen Receptor alpha

Code No. PP-H4624-00

Clone No. H4624

RRID AB_3753405

Isotype IgG2a

Host mouse

Conjugate none

Alias NR3A1, ESR1, ER-alpha, ERα

UniProt ID P03372

Entrez Gene ID 2099 (human)

Specificity This antibody specifically recognizes human ER alpha and cross-reacts with mouse and rat ER alpha. It does not recognize human ER beta.

Immunogen Baculovirus-expressed recombinant human ER alpha (2–180 aa)

Concentration 1 mg/mL

Volume 100 µL

Formulation Physiological saline with 0.1% sodium azide as a preservative.

Purification Ammonium sulfate fractionation

Origin Produced in BALB/c mouse ascites after inoculation with hybridoma of mouse myeloma cells (NS-1) and spleen cells derived from a BALB/c mouse immunized with Baculovirus-expressed recombinant human ER alpha (2–180 aa) .

Storage Store at 2–8°C for up to one month. For long-term storage, aliquot and store at –20°C or below. Repeated freezing and thawing should be avoided, as it may cause degradation and result in reduced performance.

Notes Sodium azide may react with lead and copper plumbing to form explosive metal azides. Flush with large amounts of water during disposal.

Remarks ER beta-specific antibody is available as Code No. PP-PPZ0506-00.

FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Not for Diagnostic or Therapeutic use. Purchase of this product does not include or carry any right to resell or transfer this product either as a standalone product or as a component of another product. Any use of this product other than the permitted use without the express written consent of Perseus Proteomics Inc. is prohibited.

Application	Recommended Conc. *	Data †	References ‡
IHC-P (Immunohistochemistry-Paraffin)	10–20 µg/mL	Fig.1	2, 3
ICC-IF (Immunocytochemistry, Immunofluorescence)	—	—	3
IP (Immunoprecipitation)	decide by use	—	—
ELISA	0.3 µg/mL	Fig. 2	—
WB (Western Blot)	1 µg/mL	—	1, 3

* : Optimal dilutions/concentrations should be determined by the user.

† : Data figures are shown on page 2.

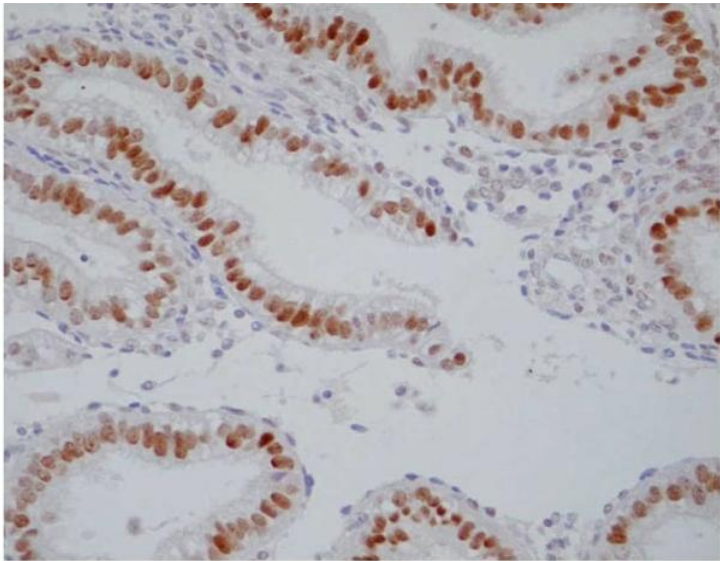
‡ : References are listed on page 3.



Full online PDF datasheet available here

Application Data

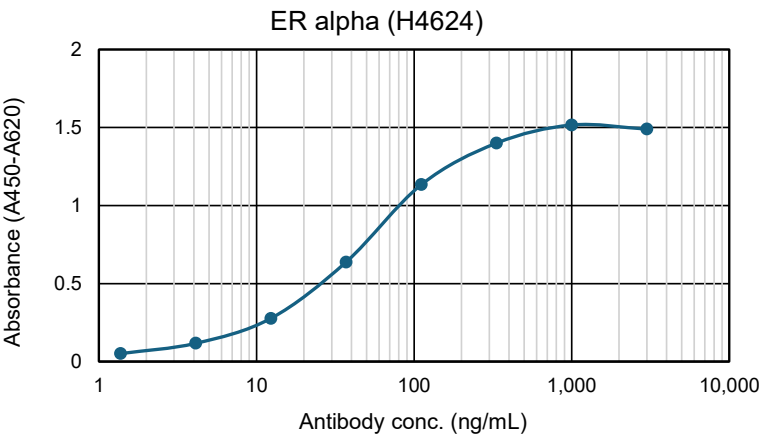
Fig. 1 IHC-P (Immunohistochemistry-Paraffin)



Human Uterus Endometrial epithelium cell

Section : Paraffin, Fixation : 10% formalin-fixed in immersion
Activation : Autoclave (121°C, 15min), Blocking with 3% H₂O₂ in methanol
Primary Antibody : PP-H4624-00 3–20 µg/mL

Fig. 2 Antigen-coated ELISA



Wells were coated with **human ER alpha (2–180 aa; expressed in baculovirus)** at 1 µg/well overnight at 4°C. After blocking with non-fat dry milk for 1 h at room temperature (RT) and washing, serially diluted **anti-ER alpha antibody (H4624)** solutions were added to each well and incubated at RT. The plate was washed, incubated with HRP-conjugated anti-mouse IgG (1:15,000) at RT, washed again, and visualized with TMB reagent.

References

1. Glynn SA, et al. J Clin Invest. 2010;120(11):3843-3854. [PMID: 20978357](#)
2. Hunsawong T, et al. J Cancer Res Clin Oncol. 2012;138(8):1311-1320. [PMID: 22476540](#)
3. Soma M, et al. Histochem Cell Biol. 2026;164(1):4. [PMID: 41543558](#)