

Anti human ER alpha mouse monoclonal antibody

ER alpha: Estrogen Receptor alpha

Code No PP-H4624-00

Clone No. H4624

Lot. A-1

Concentration 1 mg/mL

Volume 100 uL

Ig Class G2a

Description Estrogen receptor alpha (ERα, ER; NR3A1) is a member of steroid receptor (AR, GR, MR, PR). The natural ligand for ER is the classical estrogenic compound 17β-estradiol. ERα is expressed in a wide variety of tissues. Expression was found at variable levels in bones, in uterus, bladder, ovary, prostate, testis, epididymis, kidney, breast, heart, vessel wall, pituitary and hypothalamus. ER has a variety of central physiological roles, including those involved in maintenance of the reproductive, cardiovascular, musculoskeletal and central nervous systems. ERα has been shown to form homodimers as well as heterodimers with ERβ. Both ERα and ERβ can give rise to numerous isoforms.

Nomenclature NR3A1

Genbank M12674

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) .

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

Purification Ammonium sulfate fractionation

Formulation Physiological saline with 0.1% NaN₃ as a preservative.

Application / Recommended Concentration

In order to obtain the best results, optimal working dilutions should be determined by each individual user.

Western Blot 1 ug/mL

Non reducing Western Blot Not yet tested

ELISA 0.3 ug/mL (A450=0.3)

Immunoprecipitation Decide by use

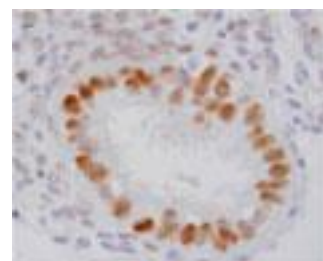
Supershift Assay Not yet tested

Chromatin immunoprecipitation Not yet tested

Immunohistochemistry 10-20 ug/mL



Human Uterus
Endometrial epithelium cell
paraffin section



Human Uterus
Endometrial epithelium cell
paraffin section

Storage Store at 2 - 8 °C up to one month. For long-term storage, the solution may be frozen in working aliquots. Repeated freezing and thawing is not recommended. Storage in a frost-free freezer is not recommended.

Reference

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

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MADE IN JAPAN

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