



Rabbit Anti-Human ESR1 Monoclonal Antibody, clone CQ7240 (CABT-Z290R)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	Synthetic peptide corresponding to ER alpha residues within aa495-595 of ER alpha was used as an immunogen.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	CQ7240
Purification	ProA affinity purified IgG.
Conjugate	Unconjugated
Applications	IHC-P Recommended concentration: IHC-P: 1:100-1:200
Molecular Weight	66 kDa
Cellular Localization	Nucleus
Positive Control	Breast Carcinoma Tissue
Format	Liquid
Concentration	Lot specific
Size	100 µl

Buffer	PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.
Preservative	0.01% Sodium azide
Storage	Store at -20 °C. Avoid freeze/thaw cycles.
Ship	Wet ice

BACKGROUND

Introduction	Estrogen receptor (ER) belongs to the steroid receptor superfamily of nuclear receptors. It is a protein with 553 amino acids. The receptor molecule has three domains, i.e. the central DNA-binding domain, the hormone-binding domain at the C-terminal, and the transcription-activating domain at the N-terminal. ER mediates regulatory functions of female sex steroids, mainly 17 (E2), on growth, differentiation and function in several target tissues, including female and male reproductive tract, mammary gland, and skeletal and cardiovascular systems. Studies have shown ER α is present in the nuclei of epithelial cells in normal breast and endometrial tissues, as well as a subset of breast carcinomas. Studies with immunohistochemical assay show that positive steroid hormone status has predicted favourable overall, survival, independently of hormonal treatment. Secondly, ER α can be used as a tumour marker, preferentially in combination with an antibody to progesterone receptor, e.g., in the classification of adenocarcinomas.
Keywords	ESR1; estrogen receptor 1; ER; ESR; Era; ESRA; ESTRR; NR3A1; estrogen receptor; ERAlpha; estradiol receptor; estrogen nuclear receptor alpha; estrogen receptor alpha E1-E2-1-2; estrogen receptor alpha E1-N2-E2-1-2; nuclear receptor subfamily 3 group A member 1

GENE INFORMATION

Gene Name	ESR1
Entrez Gene ID	2099
UniProt ID	P03372