

Estrogen Receptor (ER) α Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50135

Clone# BP6139

Predicted Molecular Wt: 66kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P03372

Background:

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.

Subcellular location:

Nucleus

Recommended method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

Immunogen:

Synthetic peptide corresponding to ER alpha residues within aa495-595 of ER alpha was used as an immunogen.

Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:

-20°C

Storage instructions:

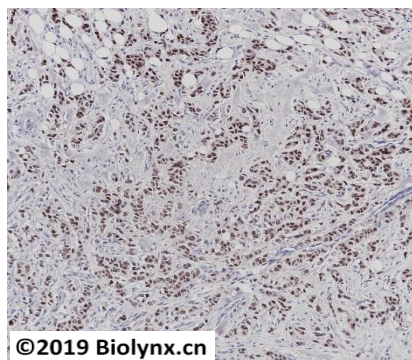
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:


IHC-P: 1:100-1:200

Background References:

- Stein B, et.al, Mol Cell Biol. 1995 Sep;15(9):4971-9.
- Saville B, et.al, J Biol Chem. 2000 Feb 25;275(8):5379-87.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of breast carcinoma tissue labelling Estrogen Receptor (ER) α with BP6139. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Product QC'd by: 

For research use only. Not for use in diagnostic or therapeutic applications.