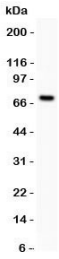
Estrogen Receptor Antibody (alpha) (R31605)

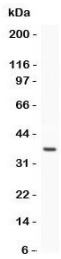
Catalog No.	Formulation	Size
R31605	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

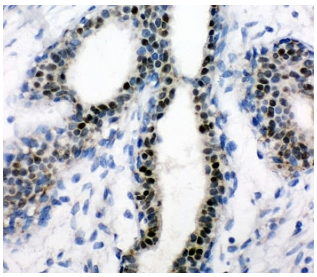
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide
Gene ID	2099
Localization	Nuclear
Applications	Western Blot : 0.5-1ug/ml IHC (FFPE) : 0.5-1ug/ml
Limitations	This Estrogen Receptor antibody is available for research use only.



Western blot testing of Estrogen Receptor antibody and MCF-7 lysate (human breast tumor cell line). Predicted molecular weight ~67 kDa.



Western blot testing of Estrogen Receptor antibody and recombinant human protein (0.5ng)



IHC-P: Estrogen Receptor antibody testing of human breast cancer tissue

Description

Estrogen receptor alpha (ERa), also known as NR3A1, is one of two main types of estrogen receptor, a nuclear protein that is activated by the sex hormone estrogen. ERs are involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. In humans, ERa is encoded by the gene ESR1. It is mapped to 6q25.1. This gene is a ligand-activated transcription factor composed of several domains important for hormone binding, DNA binding, and activation of transcription. The protein localizes to the nucleus where it may form a homodimer or a heterodimer with estrogen receptor 2/beta. Estrogen and its receptors are essential for sexual development and reproductive function, it also play a role in other tissues such as bone.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the Estrogen Receptor antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

Human ERa partial recombinant protein (AA 425-595) was used as the immunogen for this Estrogen Receptor antibody.

Storage

After reconstitution, the Estrogen Receptor antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.