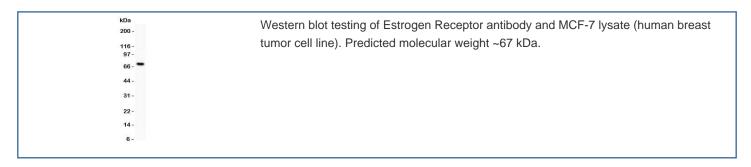


# **Estrogen Receptor Antibody (alpha) (R31605)**

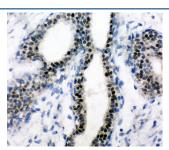
Catalog No.	Formulation	Size
R31605	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

# **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.



kDa 200 - 116 - 97 - 66 - 44 - 31 - 22 - 14 -	Western blot testing of Estrogen Receptor antibody and recombinant human protein (0.5ng)
6-	



### **Description**

Estrogen receptor alpha (ER $\alpha$ ), 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, ER $\alpha$  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.