

## Product datasheet

# Recombinant Human Estrogen Receptor alpha protein ab38041

### Overview

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<b>Product name</b>	Recombinant Human Estrogen Receptor alpha protein
<b>Protein length</b>	Protein fragment

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli
<b>Amino Acid Sequence</b>	
<b>Species</b>	Human

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab38041** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Western blot ELISA
<b>Purity</b>	> 95 % SDS-PAGE.
<b>Form</b>	Liquid

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Preservative: None Constituents: 20% Glycerol, 50mM Tris acetate, 1mM EDTA, pH 7.5
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### General Info

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<b>Function</b>	Nuclear hormone receptor. The steroid hormones and their receptors are involved in the
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regulation of eukaryotic gene expression and affect cellular proliferation and differentiation in target tissues. Can activate the transcriptional activity of TFF1.

#### **Sequence similarities**

Belongs to the nuclear hormone receptor family. NR3 subfamily.  
Contains 1 nuclear receptor DNA-binding domain.

#### **Domain**

Composed of three domains: a modulating N-terminal domain, a DNA-binding domain and a C-terminal ligand-binding domain.

#### **Post-translational modifications**

Phosphorylated by cyclin A/CDK2. Phosphorylation probably enhances transcriptional activity.  
Glycosylated; contains N-acetylglucosamine, probably O-linked.  
Ubiquitinated. Deubiquitinated by OTUB1.  
Dimethylated by PRMT1 at Arg-260. The methylation may favor cytoplasmic localization.  
Palmitoylated (isoform 3). Not biotinylated (isoform 3).

#### **Cellular localization**

Nucleus. Cytoplasm. Cell membrane. A minor fraction is associated with the inner membrane and Nucleus. Cytoplasm. Cell membrane. Associated with the inner membrane via palmitoylation.

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