

Anti-ESR1 (aa 247-261) Neutralizing Antibody (V3S-0822-YC1115)

Cat. No.: V3S-0822-YC1115

Summary

Description	This product is a mouse monoclonal antibody provided by Creative Biolabs. The antibody is capable of recognizing estrogen receptor 1. It can be used for ESR1 detection in Blocking (Block), Flow Cytometry (FC), Immunocytochemistry (ICC), Immunofluorescence (IF), Immunohistochemistry (IHC), Immunohistochemistry-Frozen (IHC-Fr), Immunohistochemistry-Paraffin (IHC-P), Immunoprecipitation (IP), Western Blot (WB). The antibody is expressed in mammalian cells (293F or CHO) with antibody encoding genes and purified by affinity chromatography. Each lot of this antibody is quality control tested by SDS-PAGE and SEC-HPLC analysis. For highly sensitive assays, we recommend the ultra purified form of the product, which has a low endotoxin limit than standard antibody, less than 1 EU/mg or even 0.1 EU/mg.
Clonality	Monoclonal
Host Species	Mouse
Target Species	Human, Mouse, Rat, Fish, Sheep, Cattle, Avian
Immunogen	Synthetic peptide corresponding to the residues E(247) V G M M K G G I R K D R R G(261) of the ER alpha DNA binding domain.
Epitope	in the region of aa 247-261.
Isotype	IgG1
Isotype Control	C60052; C51237
Secondary Antibody	C47504; C37557; C41360; C32672; C10001; C52760; C17603; C65740

Property

Conjugation	Unconjugated
Purity	>95%, determined by SDS-PAGE
Storage	Store at 4°C within one or two weeks. Store at -20°C for long term. Avoid repeated freeze/thaw cycles. Refer to the COA file for specifics.

Applications

Application	Block; FC; ICC; IF; IHC; IHC-Fr; IHC-P; IP; WB
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For lab research use only, not for diagnostic, therapeutic or any *in vivo* human use.

Target

Target	ESR1
Alternative Name	ESR1; estrogen receptor 1; ER; ESR; Era; ESRA; ESTRR; NR3A1
Gene ID	2099
UniProt	P03372
Introduction	ESR1 estrogen receptor 1 This gene encodes an estrogen receptor, 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. Estrogen and its receptors are essential for sexual development and reproductive function, but also play a role in other tissues such as bone. Estrogen receptors are also involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. Alternative promoter usage and alternative splicing result in dozens of transcript variants, but the full-length nature of many of these variants has not been determined. ER; ESR; Era; ESRA; ESTRR; NR3A1
Research Area	Signal Pathway; Neuroscience

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