

Anti-Estrogen Receptor/ESR1 Antibody Picoband® Cy3 Conjugated

Catalog Number: PB9192-Cy3

About ESR1

Estrogen receptor alpha (ER-alpha), also known as NR3A1, is one of two main types of estrogen receptor, a nuclear receptor that is activated by the sex hormone estrogen. Estrogen receptors are involved in pathological processes including breast cancer, endometrial cancer, and osteoporosis. In humans, ER-alpha is encoded by the gene ESR1 (Estrogen Receptor 1). 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. Estrogen and its receptors are essential for sexual development and reproductive function, it also play a role in other tissues such as bone.

Overview

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| Product Name | Anti-Estrogen Receptor/ESR1 Antibody Picoband® Cy3 Conjugated |
| Reactive Species | Human |
| Application | Recommended applications are based on the parent unconjugated antibody (IHC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality | Polyclonal |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3. |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light. |
| Host | Rabbit |
| Uniprot ID | P03372 |

Technical Details

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| Immunogen | E.coli-derived human Estrogen Receptor recombinant protein (Position: F425-V595). Human Estrogen Receptor shares 89% and 88% amino acid (aa) sequences identity with mouse and rat Estrogen Receptor, respectively. |
| Cross Reactivity | No cross-reactivity with other proteins |
| Isotype | Rabbit IgG |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Immunogen affinity purified. |
| Conjugate | Cy3 Excitation Wavelength: 554 nm |

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| | Emission Wavelength: 568 nm |
| Suggested Dilutions | Optimal dilutions should be determined by end users. |

5 Publications Citing This Product

1. PubMed ID: 25864222, Effects of estradiol on liver estrogen receptor- α and its mRNA expression in hepatic fibrosis in rats
2. PubMed ID: 29435117, An J, Liu T, She R, Wu Q, Tian J, Shi R, Hao W, Ren X, Yang Y, Lu Y, Yang Y, Wu Y. Oncotarget. 2017 Dec 17;9(4):4475-4484. doi: 10.18632/oncotarget.23381. eCollection 2018 Jan 12. Replication of hepatitis E virus in the ovary and promotion of oocy...
3. PubMed ID: 22101081, Fu Y, Zhao Z, Wu Y, Wu K, Xu X, Liu Y, Tong C. J Ethnopharmacol. 2012 Jan 6;139(1):26-33. Doi: 10.1016/J.Jep.2011.08.077. Epub 2011 Nov 10. Therapeutic Mechanisms Of Tongmai Dasheng Tablet On Tripterygium Glycosides Induced Rat Model For Premature...

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