

Anti-Estrogen Receptor/ESR1 Antibody Picoband® Fluoro488 Conjugated

Catalog Number: PB9192-Fluoro488

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

Product Name	Anti-Estrogen Receptor/ESR1 Antibody Picoband® Fluoro488 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

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	Fluoro488 Excitation Wavelength: 488 nm

	Emission Wavelength: 515-545 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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