

#74244 Store at +4°C

Estrogen Receptor α (D6R2W) Rabbit mAb (PE Conjugate)


Cell Signaling
TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

| | | | | | |
|-------------------------------|-------------------------|-----------------------------------|--------------------------------------|-------------------------------|--------------------------------|
| Applications: FC-FP | Reactivity: H | Sensitivity: Endogenous | Source/Isotype: Rabbit IgG | UniProt ID: #P03372 | Entrez-Gene Id: 2099 |
|-------------------------------|-------------------------|-----------------------------------|--------------------------------------|-------------------------------|--------------------------------|

| | | |
|----------------------------------|---|-------------------------|
| Product Usage Information | Application Flow Cytometry (Fixed/Permeabilized) | Dilution 1:50 |
| Storage | Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze. | |
| Specificity / Sensitivity | Estrogen Receptor α (D6R2W) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total estrogen receptor α protein. | |
| Source / Purification | Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human estrogen receptor α protein. | |
| Product Description | This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Estrogen Receptor α (D6R2W) Rabbit mAb #13258. | |
| Background | Estrogen receptor α (ER α), a member of the steroid receptor superfamily, contains highly conserved DNA binding and ligand binding domains (1). Through its estrogen-independent and estrogen-dependent activation domains (AF-1 and AF-2, respectively), ER α regulates transcription by recruiting coactivator proteins and interacting with general transcriptional machinery (2). Phosphorylation at multiple sites provides an important mechanism to regulate ER α activity (3-5). Ser104, 106, 118, and 167 are located in the amino-terminal transcription activation function domain AF-1, and phosphorylation of these serine residues plays an important role in regulating ER α activity. Ser118 may be the substrate of the transcription regulatory kinase CDK7 (5). Ser167 may be phosphorylated by p90RSK and Akt (4,6). According to the research literature, phosphorylation at Ser167 may confer tamoxifen resistance in breast cancer patients (4). | |
| Background References | 1. Mangelsdorf, D.J. et al. (1995) <i>Cell</i> 83, 835-9. 2. Glass, C.K. and Rosenfeld, M.G. (2000) <i>Genes Dev</i> 14, 121-41. 3. Chen, D. et al. (1999) <i>Mol Cell Biol</i> 19, 1002-15. 4. Campbell, R.A. et al. (2001) <i>J Biol Chem</i> 276, 9817-24. 5. Chen, D. et al. (2000) <i>Mol Cell</i> 6, 127-37. 6. Joel, P.B. et al. (1998) <i>Mol Cell Biol</i> 18, 1978-84. | |

| | |
|-------------------------------|---|
| Species Reactivity | Species reactivity is determined by testing in at least one approved application (e.g., western blot). |
| Applications Key | FC-FP: Flow Cytometry (Fixed/Permeabilized) |
| Cross-Reactivity Key | H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected |
| Trademarks and Patents | Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information. |
| Limited Uses | Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect. |

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.