Anti-Human Estrogen receptor α-163Dy

Catalog: 3163024A
Clone: D8H8
Package Size: 50 tests
Isotype: Rabbit IgG
Storage: Store product at 4°C. Do not freeze.
Formulation: Antibody stabilizer with 0.05% Sodium Azide
Reactivity: Human

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10^6 live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.

Description

Estrogen receptor alpha (ERα), a member of the steroid receptor superfamily, contains highly conserved DNA binding and ligand binding domains. Estrogens regulate proliferation and cell death and these specific actions are mediated by the two estrogen receptor (ER) subtypes, ERα or ERβ. The role of ERα in cancer cell proliferation and survival has been extensively studied in the breast and other female tissues such as the ovary, uterus and cervix. These studies demonstrate that ERα is a multifunctional protein; in addition to its genomic role as a transcription factor, where agonist-bound ERα regulates the expression of downstream genes containing estrogen-response elements (ERE), ERα localizes to the cell membrane via palmitoylation to direct "non-genomic" activities. At the plasma membrane, ERα interacts with c-Src and the regulatory subunit of PI3K, p85α, to augment signaling activity through the MAPK and PI3K pathways, both drivers of growth, proliferation and survival.

References


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