

## Anti-Phospho-EGF Receptor[Tyr1068]-146Nd

**Catalog #:** 3146007A

**Package Size:** 50 tests

**Storage:** Store product at 4°C. Do not freeze.

**Cross Reactivity:** Rat, Mouse, Human, Monkey

**Clone:** D7A5

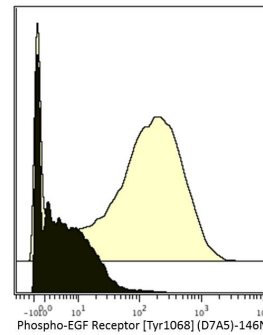
**Isotype:** Rabbit IgG

**Formulation:** Antibody stabilizer with 0.05% Sodium Azide

### Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF<sup>®</sup> 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<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human A-431 epidermoid carcinoma cells were incubated for 15 minutes in media alone (bottom) or with EGF (top). Cells were then fixed, permeabilized, and stained with 146Nd-anti-Phospho-EGF Receptor [Tyr1068] (D7A5).

### Description

Epidermal Growth Factor Receptor (EGFR) is a transmembrane tyrosine kinase belonging to the HER/ErbB protein family, and expressed by epithelial and endothelial cells. Ligand binding to EGFR results in receptor dimerization, autophosphorylation, activation of downstream signaling, internalization, and lysosomal degradation, leading to cell growth or differentiation. The GRB2 adaptor protein binds activated EGFR at phospho-Tyr1068. EGFR has been shown to be frequently overexpressed or hyperactivated in a number of epithelial tumors. The downstream signaling effects of these aberrations lead to impaired apoptosis and/or enhanced proliferation suggesting a causative relationship between receptor dysregulation and the pathology of many cancers. The D7A5 antibody reacts with EGFR phosphorylated at the tyrosine 1068 residue.

### References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010

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