

## Anti-Human EGFR-170Er

Catalog: 3170009B

Package Size: 100 tests

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

Reactivity: Human

Clone: AY13

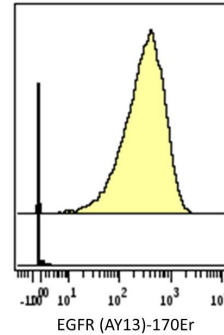
Isotype: IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

## 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<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 Hela epithelial cells (top) and human Jurkat cells (bottom) stained with 170Er-anti-EGFR (AY13).

## Description

Epidermal growth factor receptor (EGFR), also known as ErbB-1 and HER1 in humans, is a transmembrane glycoprotein that is a member of the protein kinase superfamily for cell growth and differentiation regulation. EGFR is an extracellular protein ligand that binds to epidermal growth factor and transforming growth factor  $\alpha$  (TGF $\alpha$ ). Ligand binding induces receptor dimerization and tyrosine autophosphorylation, initiating the MAPK, Akt, and JNK signal transduction pathways towards DNA synthesis and cell proliferation. EGFR is expressed or highly expressed in a variety of human tumors of epithelial origin.

## 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.

### For technical support visit [fluidigm.com/support](http://fluidigm.com/support)

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