

## Anti-EGFR-169Tm

Catalog: 3169017A

Package Size: 50 tests

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

Reactivity: Mouse, Human, Monkey

Clone: D38B1

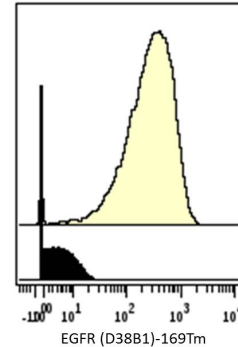
Isotype: IgG

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 BJ cells (top) and human Jurkat cells (bottom) were fixed, permeabilized, and stained with 169Tm-anti-EGFR (D38B1).

## 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 α (TGFα). 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)

EMAIL **United States and other countries not in Europe or Asia** [techsupport@fluidigm.com](mailto:techsupport@fluidigm.com) | **Europe** [techsupporteurope@fluidigm.com](mailto:techsupporteurope@fluidigm.com) | **Asia** [techsupportasia@fluidigm.com](mailto:techsupportasia@fluidigm.com)  
 PHONE **United States (toll-free)** +1 866 358 4354 | **Europe** +33 1 60 92 42 40 | **Japan** +81 3 3662 2150 | **China** +86 21 3255 8368 | **All other countries** +1 650 266 6100

### For Research Use Only. Not for use in diagnostic procedures.

This product contains antibodies manufactured by and sold under license from Cell Signaling Technology and licensees thereof.

Information in this publication is subject to change without notice. **Safety data sheet information** [fluidigm.com/sds](http://fluidigm.com/sds) | **Patent and license information** [fluidigm.com/legalnotices](http://fluidigm.com/legalnotices) | Fluidigm, the Fluidigm logo, and CyTOF are trademarks or registered trademarks of Fluidigm Corporation in the United States and/or other countries. © 2015 Fluidigm Corporation. All rights reserved. 01/2015