

Anti-Phospho-BAD [Ser112]-161Dy

Catalog: 3161006A

Clone: 40A9

Package Size: 50 tests

Isotype: IgG

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

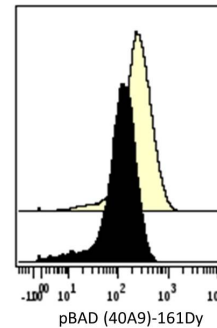
Formulation: Antibody stabilizer with 0.05% Sodium Azide

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 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



COS-7 cells were incubated for 30 minutes in media alone (bottom) or with TPA (top). Cells were then fixed, permeabilized, and stained with 161Dy-anti-pBAD (40A9).

Description

BAD, the Bcl-2-associated death promoter protein, is a proapoptotic member of the Bcl-2 family involved in initiating apoptosis. After activation, BAD is able to form a heterodimer with anti-apoptotic proteins and prevent them from stopping apoptosis. Phosphorylation of BAD by Akt/protein kinase B inhibits the ability of BAD to form heterodimer with survival protein. Dephosphorylated BAD induces apoptosis by inactivating antiapoptotic Bcl-2-family members, thereby allowing Bax/Bak-triggered apoptosis.

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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