

Anti-Phospho-CREB[Ser133]-176Yb

Catalog #: 3176005A

Package Size: 50 tests

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

Cross Reactivity: Rat, Mouse, Human

Clone: 87G3

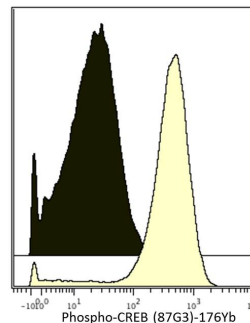
Isotype: Rabbit IgG

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® 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.



Human Jurkat T cells were incubated for 15 minutes in media alone (top) or with pervanadate (bottom). Cells were then fixed, permeabilized, and stained with 176Yb-anti-Phospho-CREB (87G3).

Description

CREB is a 43 kDa leucine zipper transcription factor that belongs to the CREB/ATF family and regulates proliferation, differentiation and survival in diverse cell types including cells of neuronal and hematopoietic origin. The serine 133 residue within the kinase-inducible domain (KID) is phosphorylated by various kinases and this phosphorylation promotes the interaction of CREB with various transcriptional co-activators, in particular the histone acetyltransferases CREB-binding protein (CBP) or p300. Phosphorylation of CREB occurs in response to stimuli including growth factors, neurotransmitters and stress signals that increase intracellular cAMP or calcium levels. When activated, CREB binds to cAMP response elements, thereby initiating transcription of CREB target genes. The 87G3 antibody reacts with CREB phosphorylated at the serine 133 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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