Anti-β-Catenin-147Sm

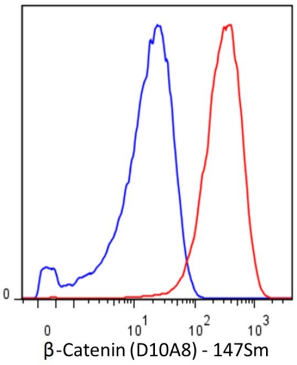
Catalog: 3147005A
Package size: 50 tests
Storage: Store product at 4 °C. Do not freeze.
Cross-reactivity: Rat, Mouse, Human, Bovine, Porcine, Equine, Guinea Pig, Monkey

Clone: D10A8
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 10^6 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 (red) and human Jurkat T cells (blue) stained with 147Sm-anti-β-Catenin (D10A8).

Description

Clone D10A8 recognizes endogenous levels of total β-catenin protein. β-catenin is a critical component of the Wnt signaling pathway, which is itself important in embryogenesis, stem-cell differentiation and tumorigenesis. When Wnt ligands bind the Frizzled family of extracellular receptors, β-catenin is stabilized and translocates to the nucleus, where it promotes gene transcription by forming a complex with the TCF family of transcription factors. In the absence of Wnt signaling, the kinases CK1 and GSK3β phosphorylate β-catenin at multiple sites, leading to proteasomal degradation.

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 (2009): 6,813–22.

Ornatsky, O. I., et al. Highly Multiparametric Analysis by Mass Cytometry. *Journal of Immunological Methods* 361 (2010): 1–20.

For technical support visit fluidigm.com/support.
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