

Anti-Human CD94-174Yb

Catalog: 3174015B

Package Size: 100 tests

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

Reactivity: Human,

Clone: HP-3D9

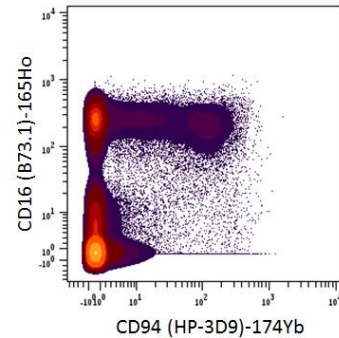
Isotype: IgG2a

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 whole blood stained with 165Ho-anti-CD16 (B73.1) and 174Yb-anti-CD94 (HP-3D9). Lymphocytes are displayed in the analysis.

Description

The HP-3D9 monoclonal antibody specifically binds to a 70 kDa disulfide-linked dimer, also known as Kp43 or CD94. It is expressed on natural killer (NK) cells, NKT cells, as well as subsets of CD8+ T cells and gamma delta T cells. Upregulation of CD94 expression appears to correlate with NK cell activation. CD94 is expressed as a heterodimer with members of the NKG2 family of receptors on the cell surface. CD94 dimerization with NKG2A results in an inhibitory receptor that leads to suppression of NK cell function. Conversely, CD94 association with NKG2C and NKG2E creates an activating receptor complex, which binds to DAP12, an adapter protein containing an ITAM motif.

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

EMAIL
 United States support.northamerica@fluidigm.com | Europe support.europe@fluidigm.com
 Asia techsupportasia@fluidigm.com | Latin America techsupportlatam@fluidigm.com
 All other countries techsupport@fluidigm.com

PHONE
 United States (toll-free) +1 866 358 4354 | Europe +33 1 60 92 42 40
 Japan +81 3 3662 2150 | China (excluding Hong Kong) +86 21 3255 8368
 All other countries +1 650 266 6100

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

Information in this publication is subject to change without notice. **Safety data sheet information** fluidigm.com/sds **Patent and license information** fluidigm.com/legalnotices | Fluidigm, the Fluidigm logo, Cell-ID, CyTOF, and Maxpar are trademarks or registered trademarks of Fluidigm Corporation in the United States and/or other countries. All other trademarks are the sole property of their respective owners. © 2015 Fluidigm Corporation. All rights reserved. 06/2015