TECHNICAL DATA SHEET

CyFlow™ DR3 Purified
Anti-Hu; Clone JD3

REF **BK911487**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	DR3
Alternative Names	TRAM
Clone	JD3
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Human DR3-Ig fusion protein

Specificity

The mouse monoclonal antibody JD3 recognizes DR3 antigen, a transmembrane protein of TNFR superfamily expressed mainly in lymphocyte-enriched tissues.

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Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

Background Information

DR3 (APO-3, TRAMP, TNFRSF12) is a death domain-containing receptor of TNFR family, which is expressed preferentially in peripheral blood leukocytes and in the lymphocyte-enriched tissues. Its expression has been shown to be especially up-regulated in activated T cells. DR3 participates e.g. in the removal of self-reactive T cells in the thymus. The ligand for DR3 is TL1A (TNF-like ligand 1A), which is expressed in a variety of cell types (induced by inflammatory stimuli), and can also be released as a soluble factor. The TL1A/DR3 axis has been shown to costimulate T cells to produce a wide variety of cytokines and leads to T cell differentiation towards Th1 and Th17 types.

References

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- Jones GW, Stumhofer JS, Foster T, Twohig JP, Hertzog P, Topley N, Williams AS, Hunter CA, Jenkins BJ, Wang EC, Jones SA: Naive and activated T cells display differential responsiveness to TL1A that affects Th17 generation, maintenance, and proliferation. FASEB J. 2011 Jan; 25(1):409-19. < PMID: 20826539 >
- Yi B, Zhang M, Schwartz-Albiez R, Cao Y: Mechanisms of the apoptosis induced by CD176 antibody in human leukemic cells. Int J Oncol. 2011 Jun; 38(6):1565-73. < PMID: 21455576 >

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• Cavallini C, Lovato O, Bertolaso A, Pacelli L, Zoratti E, Zanolin E, Krampera M, ZamòA, Tecchio C, Cassatella MA, Pizzolo G, Scupoli MT: The TNF-family cytokine TL1A inhibits proliferation of human activated B cells. PLoS One. 2013; 8(4):e60136. < PMID: 23565196 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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