

TECHNICAL DATA SHEET

CyFlow™ CD264 Azide Free Anti-Hu; Clone TRAIL-R4-01

REF CH296525

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD264
Alternative Names	TRAILR4, DCR2, TRUNDD, TNFRSF10d
Clone	TRAIL-R4-01
Clonality	monoclonal
Format	Azide Free
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	TRAIL-R4 (aa 1-210) - hlgGhc fusion protein

Specificity

The mouse monoclonal antibody TRAIL-R4-01 recognizes CD264 (TRAIL-R4) antigen, a 42 kDa transmembrane protein expressed on various blood cells.

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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 azide-free phosphate buffered saline (PBS) solution, pH ≈7.4; 0.2 µm filter sterilized.

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

CD264 (TRAIL-R4, TR4, DcR2, TRUNDD), expressed mainly on CD8+ and NK cells, belongs to receptors of TRAIL, a TNF-like membrane toxic protein that induces apoptosis in many tumor cells, but not in normal cells. TRAIL-R4, however, contains partially truncated death domain, thus it is unable to induce apoptosis and serves as a negative regulator of apoptotic signaling by impairment death-inducing signaling complex (DISC) processing. TRAIL-R4 interacts with death receptor 5 (DR5) in the native DISC in a TRAIL-dependent manner and prevents its corecruitment with death receptor 4 (DR4).

References

- Clancy L, Mruk K, Archer K, Woelfel M, Mongkolsapaya J, Screaton G, Lenardo MJ, Chan FK: Preligand assembly domain-mediated ligand-independent association between TRAIL receptor 4 (TR4) and TR2 regulates TRAIL-induced apoptosis. Proc Natl Acad Sci USA. 2005 Dec 13; 102(50):18099-104. < PMID: 16319225 >
- Sanlioglu AD, Dirice E, Aydin C, Erin N, Koksoy S, Sanlioglu S: Surface TRAIL decoy receptor-4 expression is correlated with TRAIL resistance in MCF7 breast cancer cells. BMC Cancer. 2005 May 25; 5(1):54. < PMID: 18518976 >
- Mérino D, Lalaoui N, Morizot A, Schneider P, Solary E, Micheau O: Differential inhibition of TRAIL-mediated DR5-DISC formation by decoy receptors 1 and 2. Mol Cell Biol. 2006 Oct; 26(19):7046-55. < PMID: 16980609 >
- Deligezer U, Dalay N: Expression of the TRAIL Receptors in Blood Mononuclear Cells in Leukemia. Pathol Oncol Res. 2007; 13(4):290-4. < PMID: 18158563 >

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- Falschlehner C, Emmerich CH, Gerlach B, Walczak H: TRAIL signalling. Int J Biochem Cell Biol. 2007; 39(7-8):1462-75. < PMID: 17403612 >

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

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