

TECHNICAL DATA SHEET

CyFlow™ CD358 Purified Anti-Hu; Clone DR-6-04-EC

REF BM649154

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD358
Alternative Names	TNFRSF21, DR6
Clone	DR-6-04-EC
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	A fusion protein representing amino acids 42-335 (extracellular part) of human DR6 linked to the Fc portion of human IgG1 was used as an immunogen

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Specificity

The mouse monoclonal antibody DR-6-04-EC recognizes human CD358 (DR6) antigen, a type I transmembrane protein containing cytoplasmic death domain, widely expressed in most human tissues and cell lines.

Application

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

- Flow cytometry
- Immunoprecipitation
- Immunocytochemistry

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH \approx 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

CD358 (DR6; Death Receptor-6) is a type I transmembrane protein of the TNF receptor superfamily, expressed in most human tissues and able of inducing apoptosis through its cytoplasmic death domain. Unlike TNFR1 and Fas, DR6 induces apoptosis independently of FADD adaptor. In immune system, DR6 serves as an important regulator for CD4⁺ T cell proliferation and Th differentiation, and provides also a regulatory mechanism for B cell activation and humoral immune responses.

References

- Pan G, Bauer JH, Haridas V, Wang S, Liu D, Yu G, Vincenz C, Aggarwal BB, Ni J, Dixit VM: Identification and functional characterization of DR6, a novel deathdomain-containing TNF receptor. FEBS Lett. 1998 Jul 24; 431(3):351-6. < PMID: 9714541 >
- Kasof GM, Lu JJ, Liu D, Speer B, Mongan KN, Gomes BC, Lorenzi MV: Tumor necrosis factor-alpha induces the expression of DR6, a member of the TNFreceptor family, through activation of NF-kappaB. Oncogene. 2001 Nov 29; 20(55):7965-75. < PMID: 11753679 >

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- Schmidt CS, Liu J, Zhang T, Song HY, Sandusky G, Mintze K, Benshop RJ, Glasebrook A, Yang DD, Na S: Enhanced B cell expansion, survival, and humoral responses by targeting death receptor 6. J Exp Med. 2003 Jan 6; 197(1):51-62. < PMID: 12515813 >
- Rossi D, Gaidano G: Messengers of cell death: apoptotic signaling in health and disease. Haematologica. 2003 Feb; 88(2):212-8. < PMID: 12604411 >

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

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