

TECHNICAL DATA SHEET

CyFlow™ CD95 Purified Anti-Hu; Clone EOS9.1

REF CP421037

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

Specifications

Antigen	CD95
Alternative Names	Fas, APO-1, TNFRSF6
Clone	EOS9.1
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgM
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	P815 cells transfected with human CD95

Specificity

The mouse monoclonal antibody EOS9.1 recognizes CD95 antigen, a 46 kDa glycoprotein of the tumor necrosis factor/nerve growth factor (TNF/NGF) receptor superfamily, expressed on a variety of normal and neoplastic cells.

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Application

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

- Functional assays

Storage Buffer

The reagent is provided in Tris buffered saline (TBS) solution, pH $\approx$ 8.0, 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

CD95 (Fas, APO-1), a 46 kDa transmembrane glycoprotein, is a cell death receptor of the TNFR superfamily. Stimulation of CD95 results in aggregation of its intracellular death domains, formation of the death-inducing signaling complex (DISC) and activation of caspases. In type I cells caspase 3 is activated by high amounts of caspase 8 generated at the DISC, in type II cells low concentration of caspase 8 activates pathway leading to the release of cytochrome c from mitochondria and activation of caspase 3 by cytochrome c. Besides its roles in induction of apoptosis, Fas also triggers pro-inflammatory cytokine responses.

References

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- Matsuoka K, Kim HT, McDonough S, Bascug G, Warshauer B, Koreth J, Cutler C, Ho VT, Alyea EP, Antin JH, Soiffer RJ, Ritz J: Altered regulatory T cell homeostasis in patients with CD4+ lymphopenia

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following allogeneic hematopoietic stem cell transplantation. J Clin Invest. 2010 May; 120(5):1479-93. < PMID: 20389017 >

- Kasper HU, Konze E, Kern M, Stippel DL: CD95 and TNF α -induced apoptosis in liver metastases of colorectal carcinoma. In Vivo. 2010 Sep-Oct; 24(5):653-7. < PMID: 20952729 >

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

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