TECHNICAL DATA SHEET

CyFlow™ CD120a Low Endotoxin
Anti-Hu; Clone H398

REF **CP892530**

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	CD120a
Alternative Names	TNFR1, TNFRp55, TNFRSF1A, p55
Clone	H398
Clonality	monoclonal
Format	Low Endotoxin
Host / Isotype	Mouse / IgG2a
Species Reactivity	Human
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Recombinant full length human CD120a

Specificity

The mouse monoclonal antibody H398 recognizes the extracellular domain of CD120a antigen, a 55 kDa receptor for tumor necrosis factor. The antibody blocks biological activity of both natural and recombinant human TNF-α and TNF-β.

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Application

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

- Flow cytometry
- Immunoprecipitation
- Immunohistochemistry
- Functional assays

Storage Buffer

The reagent is provided in azide-free phosphate buffered saline (PBS) solution, pH ≈7.4; 0.2 µm filter sterilized. Endotoxin level is less than 0.01 EU/µg of the protein, as determined by the LAL test.

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

CD120a (TNF R1,TNFR55 or TNFRSF1A) is a 55 kDa receptor for tumor necrosis factor α and it is expressed in most tissues. By binding its trimeric ligand the CD120a protein forms trimers and the conformation change leads to dissociation of the inhibitory factor SODD from its intracellular death domain and in formation of signaling platform. CD120a can mediate apoptosis, and function as a regulator of inflammation. Germline mutations of the extracellular domains of this receptor were found to be associated with the autosomal dominant periodic fever syndrome. The impaired receptor clearance is thought to be a mechanism of the disease.

References

- Kohrgruber N1, Halanek N, Gröger M, Winter D, Rappersberger K, Schmitt-Egenolf M, Stingl G, Maurer D: Survival, maturation, and function of CD11c- and CD11c+ peripheral blood dendritic cells are differentially regulated by cytokines. J Immunol. 1999 Sep 15; 163(6):3250-9. < PMID: 10477594 >
- Baker PK, Pettitt AR, Slupsky JR, Chen HJ, Glenn MA, Zuzel M, Cawley JC: Response of hairy cells to IFN-alpha involves induction of apoptosis through autocrine TNF-alpha and protection by adhesion. Blood. 2002 Jul 15; 100(2):647-53. < PMID: 12091360 >

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- Buckley CD1, Ross EA, McGettrick HM, Osborne CE, Haworth O, Schmutz C, Stone PC, Salmon M, Matharu NM, Vohra RK, Nash GB, Rainger GE: Identification of a phenotypically and functionally distinct population of long-lived neutrophils in a model of reverse endothelial migration. J LeukocBiol. 2006 Feb; 79(2):303-11. < PMID: 16330528 >

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

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