



1P-773-T100

Monoclonal Antibody to CD120a Phycoerythrin (PE) conjugated (100 tests)

Clone:	H398
Isotype:	Mouse IgG2a
Specificity:	The mouse monoclonal antibody H398 recognizes the extracellular domain of CD120a, a 55 kDa receptor for tumor necrosis factor. The antibody blocks biological activity of both natural and recombinant human TNF alpha and TNF beta.
Regulatory Status:	RUO
Immunogen:	Recombinant full length human CD120a
Species Reactivity:	Human
Preparation:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Storage Buffer:	The reagent is provided in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.
Storage / Stability:	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
Usage:	The reagent is designed for Flow Cytometry analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.
Expiration:	See vial label
Lot Number:	See vial label
Background:	CD120a / TNF R1, also known as TNFR55 or TNFRSF1A, is a 55 kDa receptor for tumor necrosis factor alpha 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:	*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. *Kohrgruber N, 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. *Buckley CD, 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 Leukoc Biol. 2006 Feb;79(2):303-11.

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Antibodies

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EXBIO Praha | Nad Safinou II 341 | 252 50 Vestec u Prahy | Czech Republic
Tel: +420 261 090 666 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz