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Mouse Immune Cell Phenotyping IHC Antibody Sampler Kit



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1 Kit (8 x 20 microliters)

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
CD4 (D7D2Z) Rabbit mAb	25229	20 µl	55 kDa	Rabbit IgG
CD8α (D4W2Z) XP [®] Rabbit mAb	98941	20 µl	35-42 kDa	Rabbit IgG
FoxP3 (D6O8R) Rabbit mAb	12653	20 µl		Rabbit IgG
F4/80 (D2S9R) XP [®] Rabbit mAb	70076	20 µl	65-250 kDa	Rabbit IgG
CD19 (Intracellular Domain) (D4V4B) XP [®] Rabbit mAb	90176	20 µl	95 kDa	Rabbit IgG
CD11c (D1V9Y) Rabbit mAb	97585	20 µl	145 kDa	Rabbit IgG
Granzyme B (E5V2L) Rabbit mAb	44153	20 µl	30 kDa	Rabbit IgG
CD3ɛ (E4T1B) XP [®] Rabbit mAb	78588	20 µl	23 kDa	Rabbit IgG

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	The Mouse Immune Cell Phenotyping IHC Antibody Sampler Kit provides an economical means of detecting the accumulation of immune cell types in formalin-fixed, paraffin-embedded tissue samples.
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.
Background	Cluster of Differentiation 3 (CD3) is a multiunit protein complex expressed on the surface of T-cells that directly associates with the T-cell receptor (TCR). CD3 is composed of four polypeptides: ζ , γ , ϵ and δ . Engagement of TCR complex with antigens presented in Major Histocompatibility Complexes (MHC) induces tyrosine phosphorylation in the immunoreceptor tyrosine-based activation motif (ITAM) of CD3 proteins. CD3 phosphorylation is required for downstream signaling through ZAP-70 and p85 subunit of PI-3 kinase, leading to T cell activation, proliferation, and effector functions (1). Cluster of Differentiation 8 (CD8) is a transmembrane glycoprotein expressed primarily on cytotoxic T cells, but has also been described on a subset of dendritic cells in mice (2,3). On T cells, CD8 is a co-receptor for the TCR, and these two distinct structures are required to recognize antigen bound to MHC Class I (2). Cluster of Differentiation 4 (CD4) is expressed on the surface of T helper cells, regulatory T cells, monocytes, macrophages, and dendritic cells, and plays an important role in the development and activation of T cells. On T cells, CD4 is the co-receptor for the TCR, and these two distinct structures recognize antigen bound to MHC Class II. CD8 and CD4 co-receptors ensure specificity of the TCR-antigen interaction, prolong the contact between the T cell and the antigen presenting cell, and recruit the tyrosine kinase Lck, which is essential for T cell activation (2). Granzyme B is a serine protease expressed by CD8 ⁺ cytotoxic T lymphocytes and natural killer (NK) cells and is a well-established marker for T regulatory cells (Tregs) (5). CD19 is a co-receptor expressed on B cell sthat amplifies the signaling cascade initiated by the B cell receptor (BCR) to induce activation. It is a biomarker of B lymphocyte development, lymphoma diagnosis, and can be utilized as a target for leukemia immunotherapies (6,7). F4/80 (EMR1) is a heavily glycosylated G-protein-coupled receptor and is a well-established ma
Background References	 Kuhns, M.S. et al. (2006) <i>Immunity</i> 24, 133-9. Zamoyska, R. (1994) <i>Immunity</i> 1, 243-6. Shortman, K. and Heath, W.R. (2010) <i>Immunol Rev</i> 234, 18-31. Trapani, J.A. (2001) <i>Genome Biol</i> 2, REVIEWS3014. Ochs, H.D. et al. (2007) <i>Immunol Res</i> 38, 112-21. Tedder, T.F. et al. (1997) <i>Immunity</i> 6, 107-18. Scheuermann, R.H. and Racila, E. (1995) <i>Leuk Lymphoma</i> 18, 385-97. McKnight, A.J. et al. (1996) <i>J Biol Chem</i> 271, 486-9.

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