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624

Mouse Reactive M1 vs M2 Macrophage IHC Antibody Sampler Kit



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1 Kit (6 x 20 microliters)

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
F4/80 (D2S9R) XP [®] Rabbit mAb	70076	20 µl	65-250 kDa	Rabbit IgG
CD68 (E3O7V) Rabbit mAb	97778	20 µl	70-80, 130-140, 200 kDa	Rabbit IgG
CD86 (E5W6H) Rabbit mAb	19589	20 µl	60-85 kDa	Rabbit IgG
CD11c (D1V9Y) Rabbit mAb	97585	20 µl	145 kDa	Rabbit IgG
CD206/MRC1 (E6T5J) XP [®] Rabbit mAb	24595	20 µl	190-250 kDa	Rabbit IgG
Arginase-1 (D4E3M™) XP [®] Rabbit mAb	93668	20 µl	40 kDa	Rabbit IgG
Iba1/AIF-1 (E4O4W) XP [®] Rabbit mAb	17198	20 µl	17 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

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

Description	The Mouse Reactive M1 vs M2 Macrophage IHC Antibody Sampler Kit provides an economical means of characterizing the extent of M1 and M2 macrophages 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. <i>Store at –20°C. Do not aliquot the antibodies.</i>
Background	Macrophages are myeloid cells of the innate immune system that are found in all human tissues in the body and exhibit anatomical and functional diversity. These heterogenous cells are derived from monocyte precursors in the blood that infiltrate into the tissues and differentiate in the presence of cytokines and growth factors. A spectrum of different macrophage phenotypes, or polarizations, have been described based on their secretory profiles, gene expression, and functions. Macrophages have great plasticity and can switch from one phenotype to another under different conditions. At the opposite extremes of this spectrum are so called M1, or classically activated phenotype, and M2 or alternatively activated phenotype. M1 macrophages are generally inflammatory and anti-tumor, while M2 macrophages, commonly referred to as tumor-associated macrophages in the tumor microenvironment may have prognostic values. Modulating macrophage polarization is actively pursued as a therapeutic intervention for many different diseases (1-6). In mice, F4/80, CD68, and Iba1/AIF-1 are considered general markers for macrophages. CD86, CD11c, and others have been used as markers for M2 macrophages, while CD206, Arginase-1, and others have been used as markers for M2 macrophages (7-10).
Background References	 Wynn, T.A. et al. (2013) <i>Nature</i> 496, 445-55. Biswas, S.K. and Mantovani, A. (2010) <i>Nat Immunol</i> 11, 889-96. Mills, C.D. (2012) <i>Crit Rev Immunol</i> 32, 463-88. Wang, N. et al. (2014) <i>Front Immunol</i> 5, 614. Orecchioni, M. et al. (2019) <i>Front Immunol</i> 10, 1084. Yunna, C. et al. (2020) <i>Eur J Pharmacol</i> 877, 173090. Kim, H.M. et al. (2017) <i>PLoS One</i> 12, e0179204. Gensel, J.C. et al. (2017) <i>Sci Rep</i> 7, 40144. Li, X. et al. (2018) <i>Front Pharmacol</i> 9, 72. Yang, J. et al. (2018) <i>Cereb Cortex</i> 28, 2622-2635.
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