

Senescence Associated Secretory Phenotype (SASP) Antibody Sampler Kit



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1 Kit (8 x 20 microliters)

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For Research Use Only. Not for Use in Diagnostic Procedures.

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
IL-1 β (D3U3E) Rabbit mAb	12703	20 μ l	17, 31 kDa	Rabbit IgG
CCL5/RANTES (R40) Antibody	2987	20 μ l	10 kDa	Rabbit
CXCL10 (D5L5L) Rabbit mAb	14969	20 μ l	10 kDa	Rabbit IgG
PAI-1 (D9C4) Rabbit mAb	11907	20 μ l	48 kDa	Rabbit IgG
IL-6 (D3K2N) Rabbit mAb	12153	20 μ l	21-28 kDa	Rabbit IgG
TNF- α (D5G9) Rabbit mAb	6945	20 μ l	18, 25 kDa	Rabbit IgG
MMP-3 (D7F5B) Rabbit mAb	14351	20 μ l	60 kDa	Rabbit IgG
MCP-1 Antibody (Carboxy-terminal Antigen)	39091	20 μ l	13-15 kDa	Rabbit
Anti-rabbit IgG, HRP-linked Antibody	7074	100 μ l		Goat

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

Description

Senescence Associated Secretory Phenotype (SASP) Antibody Sampler Kit provides an economical means of detecting multiple components of the SASP. The kit includes enough antibody to perform two western blot experiments with each primary antibody.

Background

Senescence is characterized by stable stress-induced proliferative arrest and resistance to mitogenic stimuli, as well as the secretion of proteins such as cytokines, growth factors and proteases. These secreted proteins comprise the senescence-associated secretory phenotype (SASP). Senescent cells are thought to accumulate as an organism ages, and contribute to age-related diseases, including cancer, through promotion of inflammation and disruption of normal cellular function (1,2). The composition of the SASP varies, and SASP components can be either beneficial or deleterious in human disease, depending on the context (3).

Senescence Associated Secretory Phenotype (SASP) Antibody Sampler Kit provides a collection of antibodies to various SASP components, including TNF-alpha, interleukin-6 (IL-6), the multifunctional cytokine IL-1beta, the chemokines CXCL10, RANTES/CCL5 and MCP-1, the matrix metalloprotease MMP3, and the serine-protease inhibitor PAI-1.

Background References

1. Tchkonina, T. et al. (2013) *J Clin Invest* 123, 966-72.
2. Sun, Y. et al. (2018) *Trends Mol Med* 24, 871-885.
3. Rao, S.G. and Jackson, J.G. (2016) *Trends Cancer* 2, 676-687.

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