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-20°C

#38461

# Senescence Associated Secretory Phenotype (SASP) Antibody Sampler Kit



Cell Signaling  
TECHNOLOGY®

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For Research Use Only. Not For Use In Diagnostic Procedures.

Products Included	Product #	Quantity	Mol. Wt.	Isotype
IL-1-beta (D3U3E) Rabbit mAb	12703	20 µl	17, 31 kDa	Rabbit IgG
RANTES (R40) Rabbit Ab	2987	20 µl	10 kDa	Rabbit IgG
CXCL10 (D5L5L) Rabbit mAb	14969	20 µl	10 kDa	Rabbit IgG
PAI-1 (D9C4) Rabbit mAb	11907	20 µl	48 kDa	Rabbit IgG
IL-6 (D3K2N) Rabbit mAb	12153	20 µl	21-28 kDa	Rabbit IgG
TNF-alpha (D5G9) Rabbit mAb	6945	20 µl	18, 25 kDa	Rabbit
MMP3 (D7F5B) Rabbit mAb	14351	20 µl	60 kDa	Rabbit IgG
MCP-1 (Carboxy-terminal Antigen) Rabbit Ab	39091	20 µl	13-15 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

See [www.cellsignal.com](http://www.cellsignal.com) for individual component applications, species cross-reactivity, dilutions and additional application protocols.

**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.

**Specificity/Sensitivity:** Each antibody in the Senescence Associated Secretory Phenotype (SASP) Antibody Sampler Kit detects endogenous levels of its target protein. CXCL10 (D5L5L) Rabbit mAb also cross-reacts with a 100kDa protein of unknown origin in some cell lines.

**Source/Purification:** Monoclonal antibodies are produced by immunizing rabbits with synthetic peptides corresponding to residues surrounding Arg294 of human PAI-1 protein, residues surrounding Ser417 of human MMP3 protein, recombinant human IL-1β protein, recombinant human CXCL10 protein, recombinant human IL-6 protein, and recombinant human TNF-α protein. Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg40 of human RANTES and near the carboxy terminus of human MCP-1 protein.

**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.

Please visit [www.cellsignal.com](http://www.cellsignal.com) for validation data and a complete listing of recommended companion products.

#### 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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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.