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#85741

# Mouse Reactive Senescence Associated Secretory Phenotype (SASP) Antibody Sampler Kit



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New 06/21

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

Products Included	Product #	Quantity	Mol. Wt.	Isotype/Source
IL-1 $\beta$ (3A6) Mouse mAb	12242	20 $\mu$ l	17, 31 kDa	Mouse IgG1
RANTES Antibody (Rodent Specific)	2989	20 $\mu$ l	10 kDa	Rabbit
PAI-1 Antibody	27535	20 $\mu$ l	50 kDa	Rabbit
TNF- $\alpha$ (D2D4) XP <sup>®</sup> Rabbit mAb (Mouse Specific)	11948	20 $\mu$ l	17, 25, 28 kDa	Rabbit
MCP-1 (E9R7Z) Rabbit mAb	41987	20 $\mu$ l	11-13, 20-30 kDa	Rabbit IgG
MMP-2 (D2O4T) Rabbit mAb	87809	20 $\mu$ l	64, 72 kDa	Rabbit IgG
IL-6 (D5W4V) XP <sup>®</sup> Rabbit mAb (Mouse Specific)	12912	20 $\mu$ l	24 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 $\mu$ l		Goat
Anti-mouse IgG, HRP-linked Antibody	7076	100 $\mu$ l		Horse

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

**Description:** The Mouse Reactive Senescence Associated Secretory Phenotype (SASP) Antibody Sampler Kit provides an economical means of detecting multiple components of the SASP in mouse samples. The kit includes enough antibodies 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).

The Mouse Reactive 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-1 $\beta$ , the chemokines RANTES/CCL5 and MCP-1, the matrix metalloproteinase MMP-2, and the serine-protease inhibitor PAI-1.

**Specificity/Sensitivity:** Each antibody in the Mouse Reactive Senescence Associated Secretory Phenotype (SASP) Antibody Sampler Kit detects endogenous levels of its target protein. RANTES Antibody (Rodent Specific) detects transfected levels of rodent RANTES.

**Source/Purification:** Monoclonal antibodies are produced by immunizing animals with recombinant human IL-1 $\beta$  protein, recombinant mouse TNF- $\alpha$  protein, recombinant mouse IL-6 protein, a synthetic peptide corresponding to residues surrounding Cys75 of mouse MCP-1 protein, or a synthetic peptide corresponding to residues surrounding Pro117 of human MMP-2 protein. Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues at the carboxyl terminus of rodent RANTES protein or corresponding to residues surrounding Gly196 of murine PAI-1 protein. Polyclonal antibodies are purified by peptide affinity chromatography.

**Storage:** Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100  $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. *Do not aliquot the antibodies.*

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.