Senescence Associated Secretory Phenotype (SASP) Antibody Kit

HAK21006

Contains Product	Specification	Applications	Species reactivity	MW(kDa)
IL-1 beta[ET1701-39]	20μl	WB,IF-Cell,IF-Tissue,IHC-P,FC	H	31 kDa
RANTES[ET1705-70]	20μl	WB,IHC-P,IF-Cell,IF-Tissue	H,M	10 kDa
IP10[ET1704-27]	20μl	WB,IF-Cell,IF-Tissue,IHC-P	H	11 kDa
PAI1[HA500124]	20μl	WB,IF-Cell,IHC-P	H,M,R	45 kDa
IL-6[EM30301]	20μl	WB,IHC-P	H	24 kDa
TNF alpha[R1203-1]	20μl	WB,ELISA	M	26 kDa
MMP3[ET1705-98]	20μl	WB,IHC-P	H,M,R	54 kDa
CCL2/MCP1[HA500042]	20μl	WB,IHC-P,IF-Cell	H	11 kDa.
HRP-Alpaca anti-Rabbit IgG Fc, Recombinant VHH[HA1031]	100μl	IP,ELISA,IHC-P,WB	Rab	
HRP-Goat anti-Mouse IgG[HA1006]	100μl	WB,ELISA,IHC-P	M	

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.

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

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. The composition of the SASP varies, and SASP components can be either beneficial or deleterious in human disease, depending on the context. 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.

Database links: UniProt ID: P01584, P13501, P30882, P02778, P05121, P22777, P20961, P05231, P06804, P08254, P28862, P03957, P13500

Images

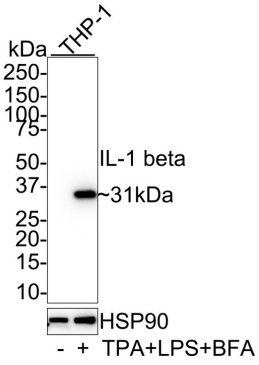

Fig1: Western blot analysis of IL-1 beta on different lysates with Rabbit anti-IL-1 beta antibody (ET1701-39) at 1/1,000 dilution.

Lane 1: THP-1 whole cell lysate
Lane 2: THP-1 treated with 80nM TPA overnight then treated with 100ng/mL LPS for 6 hours and 300ng/mL BFA for 3 hours whole cell lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 31 kDa
Observed band size: 31 kDa

Exposure time: 25 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1701-39) at 1/1,000 dilution was used in 5% NFDM/TBST at 4℃ overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

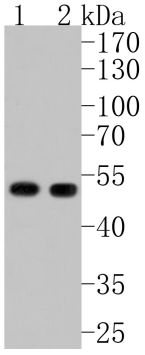

Fig2: Western blot analysis of PAI1 on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (HA500124, 1/1,000) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:200,000 dilution was used for 1 hour at room temperature.
Positive control:
Lane 1: Rat brain tissue lysate
Lane 2: Rat cerebellum tissue lysate

Background References

1. Tchkonia, 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.