

Human Interleukin-18 (IL-18) neopeptide monoclonal antibody

Category	monoclonal antibody
Catalog No.	R-I-002 (clone # 9-10.2)
Applications	WB, WES, IF, IP, function-blocking
Reactivity	Human

Immunogen information

Immunogen	human IL-18 (37-44) peptide
UniProt ID	Q14116
Synonyms	IGIF, IL1F4
Gene ID	3606

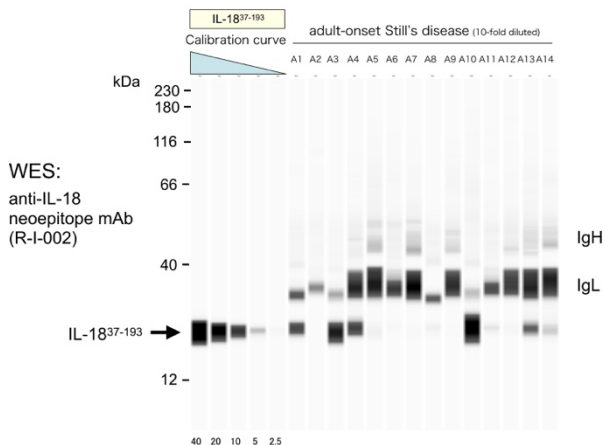
Product information

Source	Mouse
Clone No.	9-10.2
Isotype	IgG1
Epitope	human IL-18 (37-44)
Purification method	DEAE ion-exchange purification
Lot No.	001
Concentration	1.0 mg/mL
Buffer	50% glycerol/PBS, pH7.4, w/o sodium azide
Storage	Store at -20°C.

Recommended dilutions

WB	1:1000 – 1:2000
WES	1:250 – 1:300
IF	1:50 – 1:200
IP	1:20 – 1:50

Capillary Western immunoassay (WES)

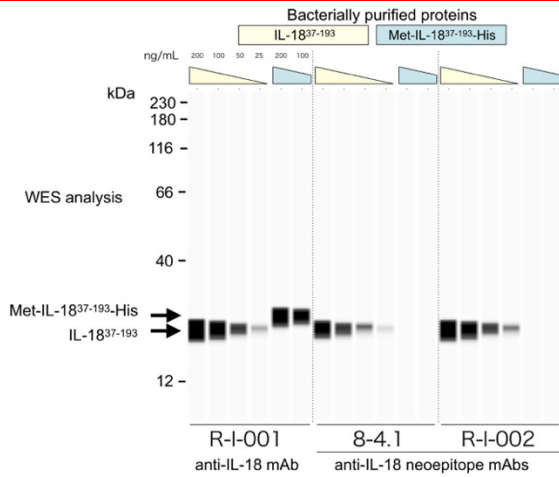


WES analysis of the serum of adult-onset Still's disease patients.

IL-18 bands in 6 (43%) of 14 AOSD samples were clearly visible and had a molecular weight corresponding to IL-18³⁷⁻¹⁹³ (Catalog # R-I-002)

WES is a registered trademark of ProteinSimple.

Capillary Western immunoassay (WES)

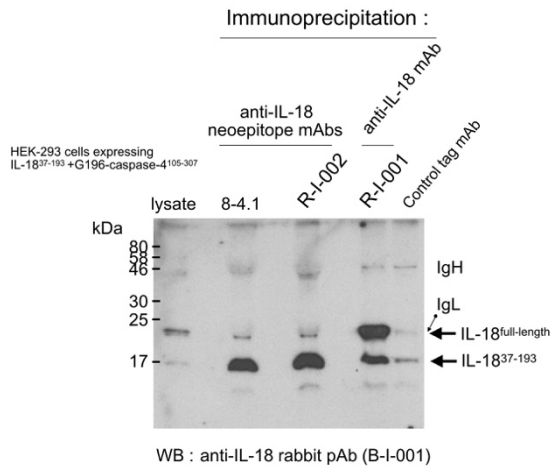


Characterization of novel mAbs against the neopeptide of human IL-18 cleaved by inflammatory caspase-1/4

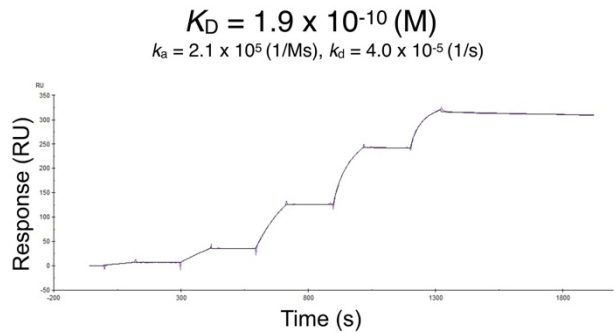
Capillary Western immunoassay (WES) of serial dilutions of bacterially purified IL-18 protein cleaved by caspase-4 (IL-18³⁷⁻¹⁹³) (Catalog # P-I-001) and Met-IL-18³⁷⁻¹⁹³ with the newly generated neopeptide mAb (Catalog # R-I-002, right panel) and anti-IL-18 mAb (Catalog # R-I-001, left panel).

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Immunoprecipitation



Surface Plasmon Resonance analysis



Background

This gene encodes a member of the interleukin-1 (IL-1) family of cytokines. In addition to its role in the inflammatory response to microbes, recent studies implicate IL-18 as an important factor in human autoimmune, autoinflammatory, allergic, neurological and metabolic diseases. Similar to IL-1β, pro-IL-18 is processed by inflammatory caspase-1 or caspase-4 to yield mature, active form (IL-18³⁷⁻¹⁹³).

References for human IL-18 neopeptide monoclonal antibody (R-I-002)

PMID:	30615852	Journal:	Archives of Biochemistry and Biophysics
Application:	WB, WES, IF, IP, function-blocking	IF (2017):	3.118
Title:	Generation and characterization of antagonistic anti-human interleukin (IL)-18 monoclonal antibodies with high affinity: Two types of monoclonal antibodies against full-length IL-18 and the neopeptide of the inflammatory caspase-cleaved active IL-18		