

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

<b>Category</b>	monoclonal antibody
<b>Catalog No.</b>	R-I-002
<b>Applications</b>	WB, WES, IF, IP, function-blocking
<b>Reactivity</b>	Human

### Immunogen information

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

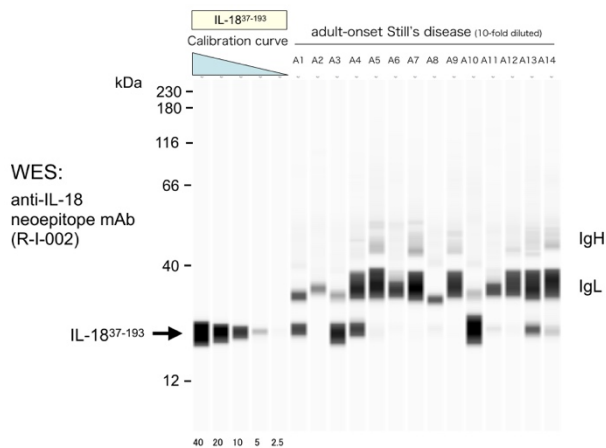
### Product information

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

### Recommended dilutions

<b>WB</b>	1:1000 – 1:2000
<b>WES</b>	1:250 – 1:300
<b>IF</b>	1:50 – 1:200
<b>IP</b>	1:20 – 1:50

### Capillary Western immunoassay (WES)

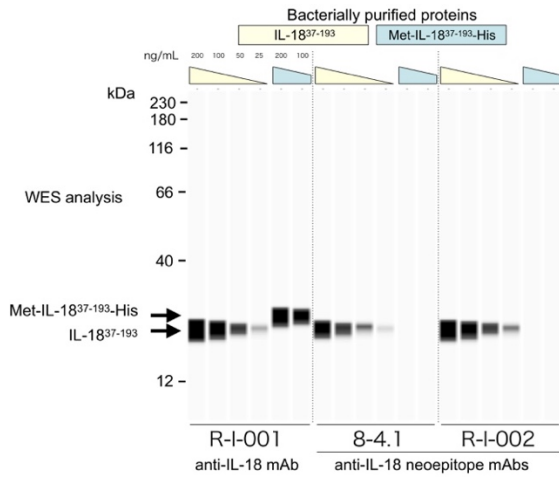


### WES analysis of the serum of adult-onset Still's disease patients.

IL-18 bands in 6 (43%) of 14 AOSD samples were clearly visible and had a molecular weight corresponding to IL-18<sup>37-193</sup> (Catalog # R-I-002)

WES is a registered trademark of ProteinSimple.

### Capillary Western immunoassay (WES)

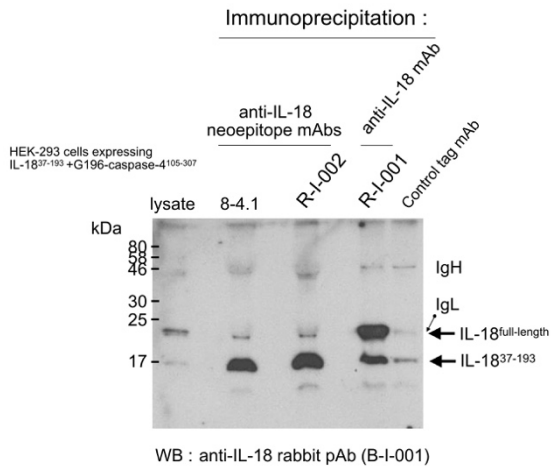


### Characterization of novel mAbs against the neoepitope of human IL-18 cleaved by inflammatory caspase-1/4

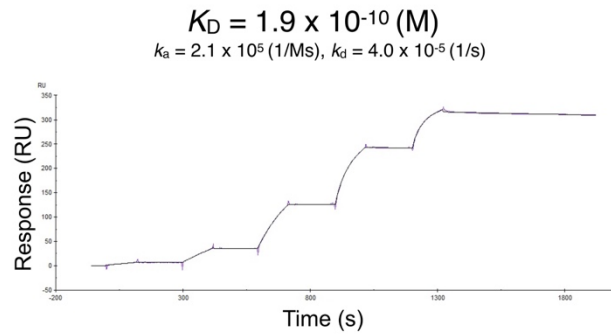
Capillary Western immunoassay (WES) of serial dilutions of bacterially purified IL-18 protein cleaved by caspase-4 (IL-18<sup>37-193</sup>) (Catalog # P-I-001) and Met-IL-18<sup>37-193</sup> with the newly generated neoepitope mAb (Catalog # R-I-002, right panel) and anti-IL-18 mAb (Catalog # R-I-001, 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-1 $\beta$ , pro-IL-18 is processed by inflammatory caspase-1 or caspase-4 to yield mature, active form (IL-18<sup>37-193</sup>).

### References for human IL-18 neoepitope 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 neoepitope of the inflammatory caspase-cleaved active IL-18		