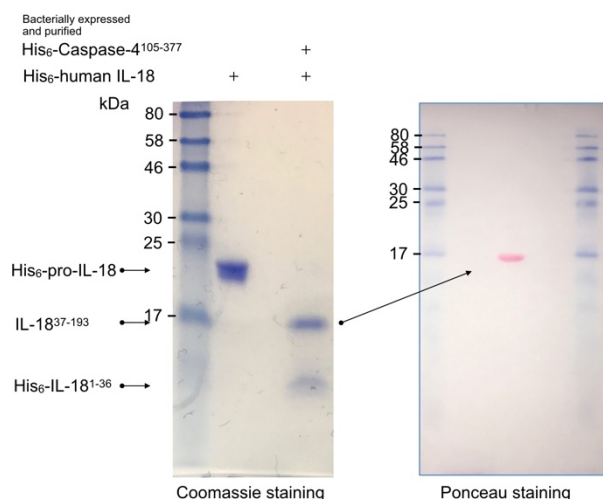


Recombinant human Interleukin-18 (IL-18) (37-193) protein

Category	protein and peptide
Catalog No.	P-I-001
Product information	
Product	Recombinant protein of human IL-18 ³⁷⁻¹⁹³
Source	<i>E. coli</i>
Purification method	Bacterially expressed and purified full-length human IL-18 was cleaved by active caspase-4 ¹⁰⁵⁻³⁷⁷ . The N-terminal Tyr of the IL-18 neoepitope was confirmed by Edman degradation sequencing.
UniProt ID	Q14116
Synonyms	IGIF, IL1F4
Gene ID	3606
Lot No.	001
Concentration	1 mg/mL
Buffer	0.2 μm filtered solution in PBS, pH7.4
Purity	>95%, by SDS-PAGE
Storage	Store at -80°C.

Purification method

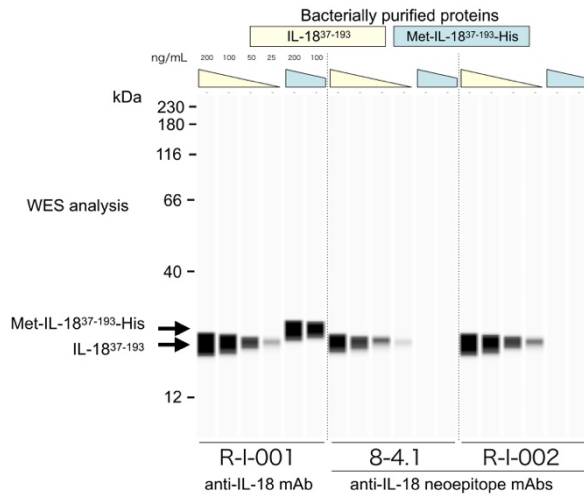


Purification method.

IL-18 and caspase-4¹⁰⁵⁻³⁷⁷ were expressed in *E. coli*, and purified using Ni-NTA agarose. A mixture of these proteins (IL-18: Caspase-4¹⁰⁵⁻³⁷⁷ =10:1) was incubated and then run through a Ni-NTA agarose column. The flow-through was collected as IL-18³⁷⁻¹⁹³.

The N-terminal Tyr of IL-18³⁷⁻¹⁹³ was confirmed by Edman degradation sequencing.

Capillary Western immunoassay (WES)

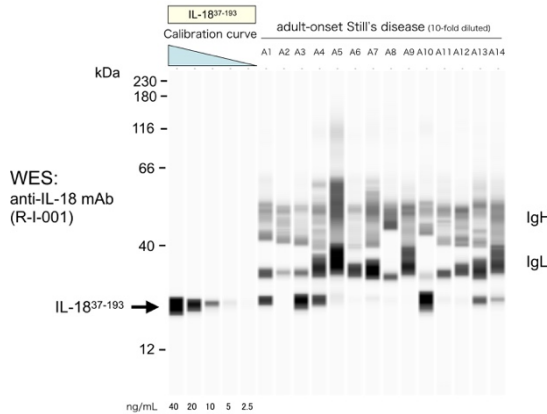


Characterization of novel mAbs against the neopeptide of human IL-18 cleaved by inflammatory caspase-1/4

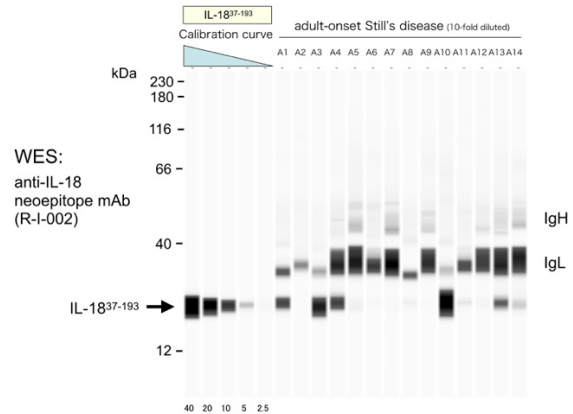
Capillary Western immunoassay (WES) of serial dilutions of bacterially purified IL-18 protein cleaved by caspase-4 (IL-18³⁷⁻¹⁹³) (Catalog # P-I-001) and Met-IL-18³⁷⁻¹⁹³ with the newly generated neopeptide mAb (Catalog # R-I-002, right panel) and anti-IL-18 mAb (Catalog # R-I-001, left panel).

WES is a registered trademark of ProteinSimple.

Capillary Western immunoassay (WES)



Capillary Western immunoassay (WES)



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 β , pro-IL-18 is processed by inflammatory caspase-1 or caspase-4 to yield mature, active form (IL-18³⁷⁻¹⁹³).

References for recombinant human IL-18³⁷⁻¹⁹³ protein (P-I-001)

PMID:	30615852	Journal:	Archives of Biochemistry and Biophysics
		IF (2020):	4.013
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		