

AG-45B-0021

24-Jul-2023

IL-1 β (human) ELISA Kit

[Interleukin-1 β ; IL-1F2]

AG-45B-0021-KI01	96 wells
Quantity	1 x 96 wells
Detection Type	Colorimetric
Assay Type	Sandwich
Sample Type	Cell Culture Supernatant / Plasma / Serum

Handling / Storage

Shipping	BLUE ICE
Short Term Storage	+4°C
Long Term Storage	+4°C

After standard reconstitution, prepare aliquots and store at -20°C. Avoid freeze/thaw cycles. Plate and reagents should reach room temperature before use.

Use / Stability

12 months after the day of manufacturing. See expiry date on ELISA Kit box.

For complete product information please see manual. Manual also available at www.adipogen.com.

Product Specifications

Species Crossreactivity	Human
Sensitivity	0.7pg/ml
Specificity	Detects human IL-1 β in serum, plasma and cell culture supernatant.
Range	1.5625 to 100pg/ml

Other Product Data

UniProt link P01584: [Interleukin-1 \$\beta\$ \(human\)](#)

WARNING: Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

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Product Description

The interleukin-1 (IL-1) family is a central mediator of innate immunity and inflammation. IL-1 family members are associated with both the development and progression of inflammatory diseases and have been linked to neurodegenerative and neuroinflammatory diseases. The IL-1 family of cytokines has 11 members, which are further subdivided into three groups, the IL-1, IL-18 and IL-36 subfamilies. The IL-1 cytokine subfamily includes agonists (IL-1 α , IL-1 β and IL-33) as well as receptor antagonist IL-1Ra. IL-1 β and IL-1 α exert similar biological effects acting on receptor IL-1R, eliciting pro-inflammatory actions. Unlike IL-1 α which is both constitutively expressed and active in its 31kDa pro-form, IL-1 β is only produced in its inactive 35kDa pro-form following priming signals, such as pathogen- or damage-associated molecular patterns (PAMPs or DAMPs) and is subsequently cleaved to its 17kDa active form following inflammasome activation in damaged or diseased states. IL-1 β is expressed by activated macrophages and monocytes. Active IL-1 β has known roles in initiating and propagating sterile inflammation, including macrophage recruitment, activation of the pro-inflammatory cytokine interleukin-6 (IL-6) and modulating chemokine expression. IL-1 β , inflammatory caspases and inflammasomes play important roles in several diseases such as sepsis, rheumatoid arthritis, inflammatory bowel disease, atherosclerosis, neuronal injuries, such as Alzheimer's disease, Parkinson's disease, stroke, cerebral ischemic cell death, multiple sclerosis and Down syndrome. Some human hereditary or acquired diseases have been linked to elevated IL-1 β such as cryopyrin-associated periodic syndroms (CAPS) directly linked to NLRP3 mutations.

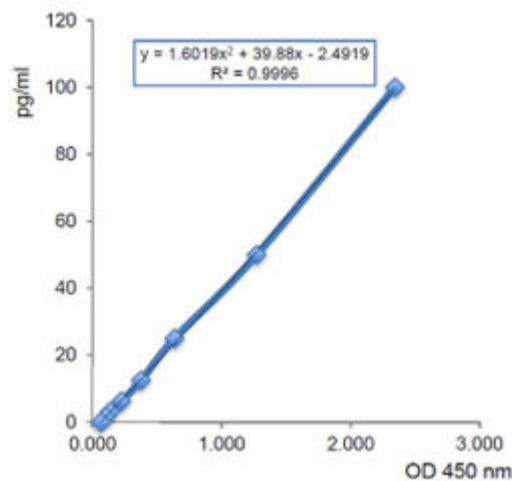


Figure 1: Standard curve

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