**PRODUCT:** RecombinantGuinea Pig IL-6

**CATALOG NUMBER:** 610004

**DESCRIPTION:**

**Expression Host:** HEK293

**Protein Sequence:** Genbank Acc# XM\_013152399 (P26-N223)

**Tag:** C-terminal His(6x)

**SPECIFICATIONS:**

**Molecular Weight:** 23.8kDa, under reducing conditions. Protein may appear larger than predicted molecular weight due to glycosylation.

**Activity:** React with Guinea Pig anti-IL-6 antibodies

**Purity:** >90% by Coomassie Blue stained SDS-PAGE gels.

**PREPARATION AND STORAGE:**

**Concentration and Buffer:** As indicated on each product, PBS

**Preservative:** None, unless specified.

**Storage:** -70oC. Avoid multiple freeze-thaw cycles.

**BACKGROUND:**

IL-6 is a pleiotropic cytokine that plays important roles in the acute phase response, inflammation, metabolism and hematopoiesis [1] [2] . It also acts as an ant-inflammatory myokine and is highly upregulated in response to muscle contraction during excise [3].

**COUNTRY OF ORIGIN:** USA

**NOTE:** For *in vitro* research use only. Not for diagnostic or therapeutic use.

**REFERENCES:**

[1] T. Tanaka, M. Narazaki, and T. Kishimoto, “IL-6 in Inflammation, Immunity, and Disease,” *Cold Spring Harb. Perspect. Biol.*, vol. 6, no. 10, pp. a016295–a016295, Oct. 2014, doi: 10.1101/cshperspect.a016295.

[2] A. Ghanemi and J. St-Amand, “Interleukin-6 as a ‘metabolic hormone,’” *Cytokine*, vol. 112, pp. 132–136, Dec. 2018, doi: 10.1016/j.cyto.2018.06.034.

[3] B. K. Pedersen and M. A. Febbraio, “Muscle as an endocrine organ: focus on muscle-derived interleukin-6,” *Physiol. Rev.*, vol. 88, no. 4, pp. 1379–1406, Oct. 2008, doi: 10.1152/physrev.90100.2007.