



## Biotinylated Porcine IL-6R alpha Polyclonal Antibody

Antigen Affinity-Purified Anti-Porcine IL-6R alpha Goat Antibody

Catalog Number: GR190002

### Background

Interleukin 6 receptor (IL6R) also known as CD126 (Cluster of Differentiation 126) is a type I cytokine receptor. Interleukin 6 (IL6) is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in immune response. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. In melanocytic cells IL6R gene expression may be regulated by MITF.<sup>[1]</sup> The IL6 receptor is a protein complex consisting of a IL-6 receptor subunit (IL6R) and interleukin 6 signal transducer Glycoprotein 130. IL6R also denotes the human gene encoding this subunit. Alternatively spliced transcript variants encoding distinct isoforms have been reported.<sup>[2]</sup> IL6R subunit is also shared by many other cytokines. Interleukin-6 receptor has been shown to interact with Interleukin 6<sup>[2]</sup> <sup>[3]</sup> <sup>[4]</sup> and Ciliary neurotrophic factor.<sup>[3]</sup><sup>[5]</sup>

### Reference

1. Hoek KS, *et al.* (2008). *Pigment Cell Melanoma Res.* **21** (6): 665–76.
2. Schwantner, Andreas *et al.* (2004) *J. Biol. Chem.* **279** (1): 571–6.
3. Schuster, Björn *et al.* (2003) *J. Biol. Chem.* **278** (11): 9528–35.
4. Taga, T *et al.* (1989) *Cell* **58** (3): 573–81.
5. Schooltink, H (1992) *FEBS Lett.* **314** (3): 280–4.

### Description

Species reactivity: Porcine

Specificity: Detects Porcine IL-6R alpha in direct ELISAs and Western blots.

Source: Polyclonal Goat IgG

Purification: Antigen Affinity purified

Immunogen: *E. coli* derived recombinant Porcine IL-6R alpha, Ala21-Gly392, and Accession # [NP\\_999568.1](#)

Endotoxin Level: < 0.10 EU per 1 µg of the antibody by the LAL method.

Formulation: Lyophilized from 0.2 µm filtered PBS with 5% trehalose.



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### **Application**

Reconstitution: Reconstitute at 0.2 mg/ml in sterile PBS

Recommended concentration:

Western blot-0.1-0.5 µg/ml

ELISA: 0.1-0.5 µg/ml

Neutralization: Measured by its ability to neutralize IL-6 R $\alpha$ -mediated inhibition of proliferation in the M1 mouse myeloid leukemia cell line. The Neutralization Dose (ND<sub>50</sub>) is typically 2-5 µg/mL in the presence of 20 ng/mL Recombinant porcine IL-6 R $\alpha$  and 20 ng/mL Recombinant porcine IL-6.

### **Stability & Storage**

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 1 month from date of receipt, 4 °C, reconstituted.
- 6 months from date of receipt, -20°C to -70°C, reconstituted.

### **Related products**

1. GR239031 96-well microplate sealer plastic, pack of 100
2. GR238016 50 ml Reagent Reservoir, 100/case, 5 packs/case (pack of 20)
3. GR238004 Tissue Culture 96-well Microplate, individually packed, Case of 50
4. GR238002 Microplate 12x8-Well Strip High Binding, Case of 50
5. GR238003 Microplate 12x8-Well Strip Medium Binding, Case of 50
6. GR238032 42592 Costar Stripwell Microplate 1 x 8 Flat Bottom, High Binding, Case of 100
7. GR238001 468667 Thermo Microplate 12x8-Well Strip Nunc Maxisorp F8, Case of 60
8. GR238019 1.5 ml Microcentrifuge tube with screw cap and free-standing, pack of 500

### **DECLARATION**

THIS REAGENT IS FOR IN VITRO LABORATORY TESTING AND RESEARCH USE ONLY. DO NOT USE IT FOR CLINICAL DIAGNOSTICS. DO NOT USE OR INJECT IT IN HUMANS AND ANIMALS.

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