For Research Use Only

anti-IL6 recombinant VHH, biotinylated

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Catalog Number: IL6-b

Basic Information

Catalog Number:
IL6-b

Applications:
BLI, SPR, ELISA

Host:
Alpaca

Conjugate:
Biotin

Type:
Nanobody

Class:
Recombinant

RRID:
AB_3665394

Molecular Weight:
13.7 kDa

Description

IL6-b is a recombinant mono-biotinylated anti IL6 Nanobody (VHH), suitable for ELISA, SPR, and BLI applications.

Affinity

3 nM

Background

Interleukin-6 (IL-6) is an interleukin that acts as both a pro-inflammatory and anti-inflammatory cytokine. IL-6 protein is secreted by a variety of cell types including T cells and macrophages as phosphorylated and variably glycosylated molecule. IL-6 plays an essential role in the final differentiation of B-cells into Ig-secreting cells involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. IL-6 is also considered a myokine, a cytokine produced from muscle, and is elevated in response to muscle contraction. IL-6 has been shown to interact with interleukin-6 receptor and glycoprotein 130. Additionally, IL-6 is involved in hematopoiesis, bone metabolism, and cancer progression, and has been defined an essential role in directing transition from innate to acquired immunity.

Storage

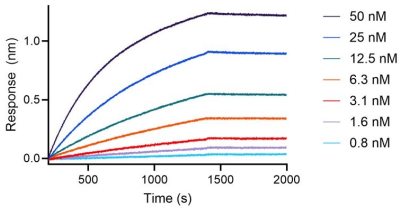
Storage:
Store at -20°C

Storage Buffer:
10 mM HEPES pH 7.0, 500 mM NaCl, 5 mM EDTA, 0.09% sodium azide

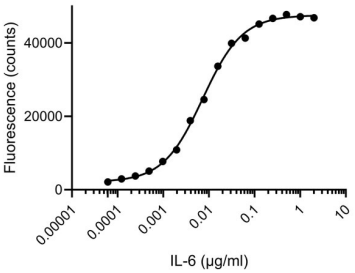
For technical support and original validation data for this product please contact

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or E: proteintech@ptglab.com
1(312) 455-8498 (outside USA) W: www.ptglab.com

Selected Validation Data



BLI analysis of the capture of varying concentrations of HumanKine IL-6 (HZ-1019) by biotinylated anti-IL-6 VHH (IL6-b). Please note the higher apparent affinity owing to avidity effects (dimerization of the cytokine).



ELISA analysis of the capture of varying concentrations of HumanKine IL-6 (HZ-1019) by biotinylated anti-IL-6 VHH (IL6-b). Detection via rabbit polyclonal PTG 21865-1-AP.