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Datasheet for ABIN2666442
IL23 Protein (AA 21-189, AA 23-328)

1 Image

Overview

Quantity:	10 µg
Target:	IL23
Protein Characteristics:	AA 21-189, AA 23-328
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Intracellular Flow Cytometry (ICFC)

Product Details

Purity:	> 95 % , as determined by Coomassie stained SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 0.01 ng per µg cytokine as determined by the LAL method.

Target Details

Target:	IL23
Alternative Name:	IL-23 (IL23 Products)
Background:	Interleukin 23 (IL-23) is a member of the IL-6 family of cytokines, and it is comprised of two subunits, p19 and p40. The p19/p40 heterodimer is stabilized by a disulfide bond. The p40 subunit is shared by IL-23 and IL-12 cytokines. p19 mRNA is expressed in endothelial cells and polarized T cells, p40 is not expressed by these cells. Therefore, the availability of functional IL-

Target Details

23 is limited by the expression of p40 and not p19. IL-23 exerts its biological activities through the interaction with a heterodimeric receptor complex composed of IL-12Rb1 and IL-23R. IL-23 activates Janus kinase (JAK)/signal transducer and activator of transcription (STAT) signaling molecules. JAK2 is constitutively associated with the IL-23R chain, and binding of IL-23 to its receptor leads to phosphorylation of STAT1, STAT3, STAT4, and STAT5.

Molecular Weight: The total predicted molecular weight is 53.3 Da. The non-reduced protein migrates at approximately 60 kDa and the DTT-reduced protein produces two bands at approximately 19 kDa and 40 kDa by SDS-PAGE.

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: Biological activity: ED50=0.4 - 2.0 ng/ml, corresponding to a specific activity of 0.5 - 2.5 x 10⁶ units/mg as determined by mouse splenocyte IL-17A secretion, which is induced by hIL-23 in a dose dependent manner.

Restrictions: For Research Use only

Handling

Format: Liquid

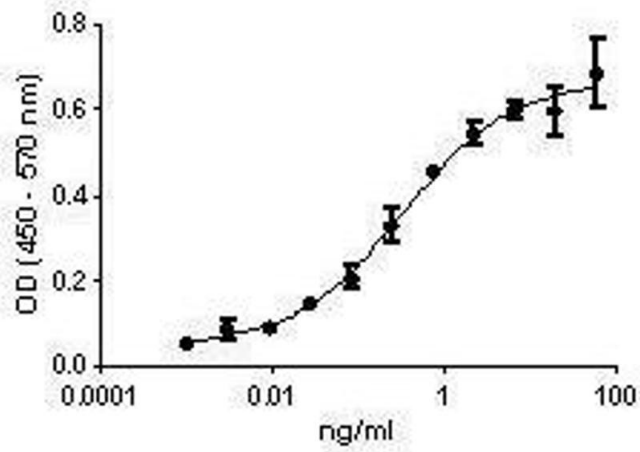
Reconstitution: For maximum results, quick spin vial prior to opening. Stock solutions should be prepared at no less than 10 µg/mL in buffer containing carrier protein such as 1 % BSA or HSA or 10 % FBS. After dilution, the cytokine can be stored between 2 °C and 8 °C for one month or from -20 °C to -70 °C for up to 3 months.

Buffer: 0.22 µm filtered protein solution is in PBS.

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -20 °C

Storage Comment: Unopened vial can be stored at -20°C for three months or at -70°C for six months.



ELISA

Image 1.