

**Human IL-17A Neutralizing (D13C2)
Rabbit mAb**

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Applications:	Reactivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
N	H	Rabbit IgG	#Q16552	3605

**Product Usage
Information**

CST recommends incubation of the neutralizing antibody with the intended target for 1 hr at 37°C before addition to the experiment at an optimal concentration determined by the user.

Reconstitution:

Add sterile 10 mM HEPES pH 7.0 to a final concentration of greater than 50 µg/ml. Solubilize for 20 min at room temperature with occasional gentle vortexing.

Application

Neutralizing

Dilution

1:1

Formulation

Lyophilized from a 0.2 µm filtered solution in 10 mM HEPES with trehalose.

Storage

Store lyophilized material at -20°C. After reconstitution, recommended storage at 4°C for 1 month or -20°C for 6 months. Avoid repeated freeze/thawing.

Specificity/Sensitivity

Human IL-17A Neutralizing (D13C2) Rabbit mAb binds to human IL-17A (hIL-17A) and neutralizes its ability to induce IL-6 production in human dermal fibroblast cells. This antibody shows 50% cross-reactivity with human IL-17A/F. This antibody does not cross-react with mouse IL-17A, human IL-25 or mouse IL-25.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a recombinant human IL-17A protein.

Description

Neutralizing antibodies can be used to inhibit normal biological function through their binding to biological molecules. These reagents can be used to determine the effects that a particular molecule has in biological systems. Human IL-17A Neutralizing (D13C2) Rabbit mAb has been shown to neutralize the production of IL-6 from human dermal fibroblast cells *in vitro* with an ND₅₀ in the range of 8-50 ng/ml.

Background

IL-17A is a cystine-linked homodimeric pro-inflammatory cytokine produced by Th₁₇ cells, a distinct CD4+ T cell lineage (1,2). IL-17A stimulates the production of the pro-inflammatory cytokines IL-1β, TNF-α, and IL-6. IL-17A also induces production of the neutrophil chemoattractants IL-8, CXCL1, and CXCL6 thereby bridging adaptive and innate immunity (1,2). IL-17A is intimately involved in mucosal immunity against bacterial infections (1,3) and has a putative role in some autoimmune disorders (1,4). IL-17A effects appear to be exerted primarily through binding to the IL-17RA (5). IL-17A binding induces production of cytokines, chemokines and other proteins through activation of the Erk1/2 MAP kinase, PI3K/Akt, p38, and NF-κB pathways (3,4,6).

Background References

1. Kolls, J.K. and Lindén, A. (2004) *Immunity* 21, 467-76.
2. Liang, S.C. et al. (2006) *J Exp Med* 203, 2271-9.
3. Dubin, P.J. and Kolls, J.K. (2008) *Immunol Rev* 226, 160-71.
4. Zrioual, S. et al. (2009) *J Immunol* 182, 3112-20.
5. Wright, J.F. et al. (2008) *J Immunol* 181, 2799-805.
6. Rahman, M.S. et al. (2006) *J Immunol* 177, 4064-71.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

N: Neutralizing

Cross-Reactivity Key

H: Human

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