

Monoclonal Anti-human IL-17A

Product reference: DDX0330-DDX0339

Description:

IL-17 (cytotoxic T lymphocyte associated antigen 8) is a CD4⁺ T cell-derived cytokine that stimulates stromal cells and macrophages to secrete proinflammatory cytokines. To address a possible mechanism by which IL-17 may promote alloreactivity, we examined the influence of IL-17 on the differentiation and function of bone marrow-derived cells propagated in GM-CSF with or without IL-4 to promote dendritic cell (DC) growth. A minor proportion of CD11c⁺ DC expressed the IL-17R. IL-17 promoted the maturation of DC progenitors, as evidenced by increased cell surface expression of CD11c, costimulatory molecules (CD40, CD80, CD86), and MHC class II Ag, and allostimulatory capacity. IL-17 had a lesser effect on the phenotype and function of more fully differentiated myeloid DC. These findings suggest a role for IL-17 in allogeneic T cell proliferation that may be mediated in part *via* a maturation-inducing effect on DC. IL-17 appears to be a novel target for therapeutic intervention in allograft rejection. hIL17 stimulate epithelial, endothelial, and fibroblastic cells to secrete cytokines such as IL-6, IL-8, and G-CSF and PGE2. (Fossiez F et al, 1996 ; J. Exp. Med., 183:2593-2603 ; Fossiez F. et al, 1998 ; Int. Rev. Immunol., 16:541-551)

Specificity:

human IL-17A

Immunogen:

rhCytotoxic T Lymphocyte associated-Antigen 8 transfected COS-7 cells

Species cross-reactivity:

see table below

Purification:

QMA Hyper D ion-exchange chromatography

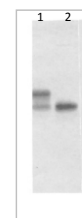
Formulation/size:

Purified: 100 µg in 200µl / 50 µg in 100 µl Tris-NaCl pH 8

Coupled: 100 µg in 200µl / 50 µg in 100 µl PBS 50% glycerol

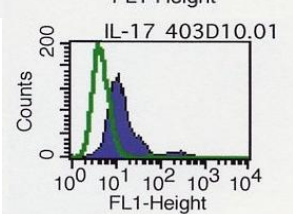
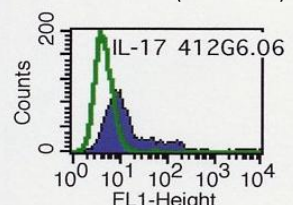
Available clones and formats:

Reference	Format	Clone	Isotype	Cross-reactivity	Application tested
DDX0330	Purified	403D10.01 mAb5	mouse IgG1	dog	Neutralizing*, Intracellular flow cytometry
DDX0330B	Biotin (on request)				
DDX0331	Purified (on request)	409C8.02	mouse IgG1	nd	Intracytoplasmic flow cytometry
DDX0331B	Biotin (on request)				
DDX0333	Purified (on request)	406C9.06	mouse IgG1	nd	Intracytoplasmic flow cytometry
DDX0333B	Biotin (on request)				
DDX0334	Purified	412G6.06 mAb16	mouse IgG1	mouse, dog	Elisa capture & detection Neutralizing Intracytoplasmic flow cytometry
DDX0334B	Biotin (on request)				
DDX0334HRPO	HRPO (on request)				
DDX0335	Purified (on request)	414A11.03 mAb19	mouse IgG1	mouse IL17	Elisa detection (runs with 412G6.06 and 408H6.01) Neutralizing
DDX0335B	Biotin (on request)				
DDX0335HRPO	HRPO (on request)				
DDX0336	Purified	408H6.01 mAb 25	mouse IgG2a	mouse IL17	Elisa capture Neutralizing Intracytoplasmic flow
DDX0336B	Biotin (on request)				
DDX0337	Purified (on request)	409H7.05 mAb 13	mouse IgG1	nd	Neutralizing* Intracytoplasmic flow
DDX0338	Purified (on request)	413C2.01	mouse IgG1	nd	Intracytoplasmic flow cytometry
DDX0339	Purified (on request)	412H6.03	mouse IgG1	nd	Intracytoplasmic flow cytometry



1-Human IL17 is a N-glycosylated dimer.
2-Human IL17 digested by endoglycosidase -F.

Intracellular FACS (canine line)



Bonnefont C, pers comm 2010

* neutralizing activity: mAbs anti-IL17 suppress IL6 and IL8 secretion by rheumatoid synovial fibroblasts.

Usage recommendation:

*These monoclonal antibodies may be used between 1-10 µg/ml.

*Optimal dilution should be determined by each laboratory for each application.

*Coupled antibody: to maintain RT before use.

Aliquot storage conditions

-20°C. KEEP CONTENTS STERILE: no preservative.

Purified antibodies: avoid repeated freeze/thaw cycles.

Coupled antibodies: glycerol protects from freezing

Not for use in Humans. For research purpose only