

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-17 in ELISAs and Western blots. In direct ELISAs, 100% reactivity with recombinant mouse (rm) IL-17A/IL-17F heterodimer, 50% cross-reactivity with recombinant human IL-17, and 25% cross-reactivity with recombinant canine IL-17 is observed. No cross-reactivity with rmlIL-17B, rmlIL-17C, rmlIL-17D, rmlIL-17E, or rmlIL-17F is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 50101
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse IL-17 Thr22-Ala158 Accession # Q62386
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	Recombinant Mouse IL-17 (Catalog # 421-ML)
Mouse IL-17 Sandwich Immunoassay		Reagent
ELISA Capture	2-8 µg/mL	Mouse IL-17/IL-17A Antibody (Catalog # MAB721)
ELISA Detection	0.1-0.4 µg/mL	Mouse IL-17/IL-17A Biotinylated Antibody (Catalog # BAF421)
Standard		Recombinant Mouse IL-17/IL-17A (Catalog # 421-ML)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Interleukin 17 (also known as CTLA-8) is a T cell-expressed pleiotropic cytokine that exhibits a high degree of homology to a protein encoded by the ORF13 gene of herpes virus Saimiri. cDNA clones encoding IL-17 have been isolated from activated rat, mouse and human T cells. Mouse IL-17 cDNA encodes a 158 amino acid (aa) residue precursor protein with a 21 amino acid residue signal peptide that is cleaved to yield the 137 aa residue mature IL-17. Both recombinant and natural IL-17 have been shown to exist as disulfide linked homodimers. At the amino acid level, mouse IL-17 shows 57% and 87% sequence identity with herpes virus and rat IL-17, respectively. An IL-17 specific mouse cell surface receptor (IL-17 R) has been cloned. While the expression of IL-17 mRNA is restricted to activated alpha beta TCR⁺CD4⁺CD8⁻ T cells, the expression of mouse IL-17 R mRNA has been detected in virtually all cells and tissues tested. IL-17 exhibits multiple biological activities on a variety of cells including: the induction of IL-6 and IL-8 production in fibroblasts; the enhancement of surface expression of ICAM-1 in fibroblasts; activation of NF-κB and costimulation of T cell proliferation.

References:

1. Kennedy, J. *et al.* (1996) J. Interferon Cytokine Res. **16**:611.
2. Yao, Z. *et al.* (1995) J. Immunol. **155**:5483.
3. Yao, Z. *et al.* (1995) Immunity **3**:811.
4. Rouvier, E. *et al.* (1993) J. Immunol. **150**:5445.