

DESCRIPTION

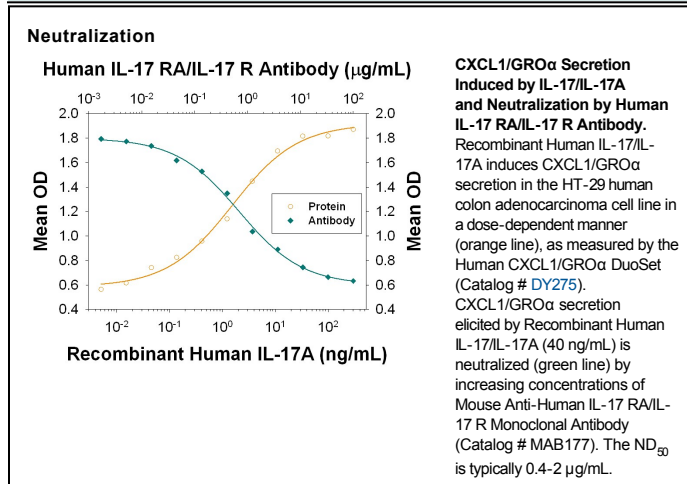
Species Reactivity	Human
Specificity	Detects human IL-17 RA/IL-17 R in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant mouse (rm) IL-17 R, rmlIL-17B R, or recombinant human IL-17B R is observed. In Western blots, no cross-reactivity with rmlIL-17 R is observed
Source	Monoclonal Mouse IgG ₁ Clone # 133617
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-17 RA/IL-17 R Leu33-Trp320 Accession # Q96F46
Endotoxin Level	<0.10 EU per 1 µg of the antibody by the LAL method.
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 Human IL-17 RA/IL-17 R Fc Chimera (Catalog # 177-IR)
Flow Cytometry	2.5 µg/10 ⁶ cells	K562 human chronic myelogenous leukemia cell line
Neutralization		Measured by its ability to neutralize IL-17/IL-17A-induced CXCL1/GROα secretion in the HT-29 human colon adenocarcinoma cell line. The Neutralization Dose (ND ₅₀) is typically 0.4-2 µg/mL in the presence of 40 ng/mL Recombinant Human IL-17/IL-17A.

DATA



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. IL-17 binds to IL-17 receptor (IL-17 R) which shares no homology with any known family of receptors. While the expression of IL-17 is restricted to activated T cells, the IL-17 R mRNA exhibits a broad tissue distribution, and has been detected in virtually all cells and tissues tested. Human IL-17 R is a 120 kDa, 866 amino acid (aa) type I membrane glycoprotein with a 293 aa extracellular domain, a 21 aa carboxy-proximal transmembrane domain, and a 525 aa cytoplasmic tail. Within the ECD, human IL-17 R shares 72% aa sequence identity with mouse and rat IL-17 R. The signaling events of IL-17 includes activation of NF-κB and JNK, and require TNF receptor-associated factors 6 (TRAF6) in the signaling pathway.

References:

1. Yao, Z. *et al.* (1997) *Cytokine* 9:794.
2. Schwander, R. *et al.* (2000) *J. Exp. Med.* 191:1233.