

DESCRIPTION

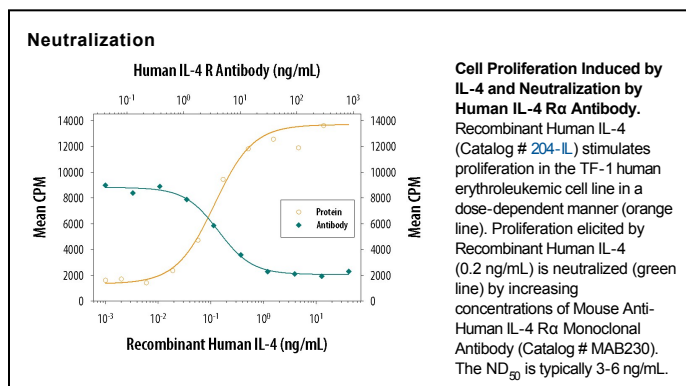
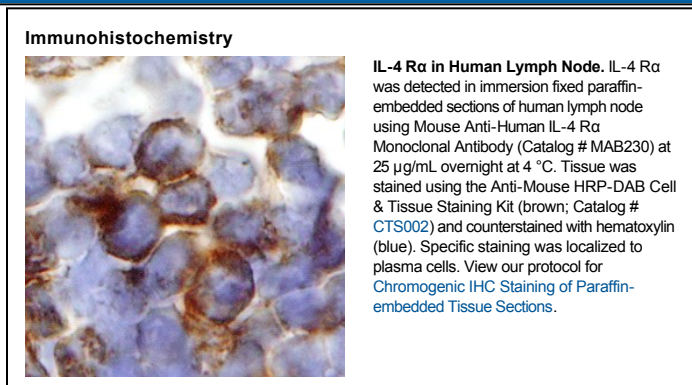
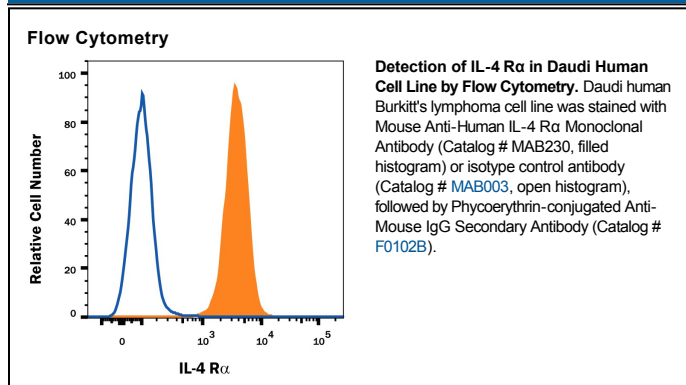
Species Reactivity	Human
Specificity	Detects human IL-4 R α in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human (rh) IL-9 R, recombinant mouse IL-4 R, rhIL-5 R α , rhIL-5 R β , rhIL-13 R α 1, or rhIL-13 R α 2 is observed.
Source	Monoclonal Mouse IgG _{2A} Clone # 25463
Purification	Protein A or G purified from ascites
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human IL-4 R Gly24-His232 Accession # P24394
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μ m 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 μ g/mL	Recombinant Human IL-4 R α (Catalog # 230-4R) under non-reducing conditions only
Flow Cytometry	0.25 μ g/10 ⁶ cells	See Below
Immunohistochemistry	8-25 μ g/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Neutralization	Measured by its ability to neutralize IL-4-induced proliferation in the TF-1 human erythroleukemic cell line. Kitamura, T. <i>et al.</i> (1989) <i>J. Cell Physiol.</i> 140 :323. The Neutralization Dose (ND ₅₀) is typically 3-6 ng/mL in the presence of 0.2 ng/mL Recombinant Human IL-4.	

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.

- 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 4 receptor (IL-4 R) is the transmembrane ligand binding subunit of the heterodimeric IL-4 receptor complex. In the type I receptor complex, IL-4 R associates with the common γ chain, whereas in the type II receptor complex, it associates with IL-13 R α 1. IL-4 R is expressed by B cells, T cells, monocytes and macrophages.