
anti- IL-3 R β

Cat #: HM1189
Rabbit polyclonal IgG
0.2 $\mu\text{g}/\mu\text{l}$, store at 4 °C

For research use only

BACKGROUND

Interleukin-3 (IL-3) is a pleiotropic cytokine that is primarily secreted by activated T lymphocytes and stimulates the proliferation and differentiation of hematopoietic cells. The human IL-3 exerts its biological effects through a receptor which consists of a unique 70 kDa ligand-specific α subunit and a 120-140 kDa signal transducing β subunit common to the IL-3/IL-5/GM-CSF receptors. The α subunits are low-affinity ligand binding proteins while the β subunits do not themselves bind ligand, but are required for high-affinity binding by the α subunits. In contrast, the mouse IL-3 receptor has two distinct β subunits, one that functions only in IL-3 mediated cell signaling and a second that is shared with IL-5 and GM-CSF. The murine β subunits are 91% homologous at the amino acid level but only 56% homologous to the human β subunit. Although neither the murine nor the human β subunit contains tyrosine kinase domains, both activate tyrosine phosphorylation mediated signaling pathways.

SPECIFICITY

This antibody reacts with IL-3R β chain and β chain common to IL-3R, IL-5R and GM-CSFR of mouse and human origin.

The antibody can be used in Western blotting, immunoprecipitation and immunohistochemistry.

IMMUNOGEN

A peptide at the N-terminus of mouse IL-3 R β .

STORAGE

This antibody is stable for 12 months when stored at 2-8°C.

REFERENCES

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