CD126 Monoclonal Antibody (B-R6), Biotin, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotope	Mouse / IgG1
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Biotin, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	B-R6
Conjugate	Biotin
Form	Liquid
Concentration	10 µL/Test
Purification	Affinity chromatography
Storage buffer	TBS, pH 7.4, with 1% BSA
Contains	0.02% sodium azide
Storage Conditions	4° C
RRID	AB_10596492

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	Assay-Dependent	

Product Specific Information

Description: Recognizes soluble and membranous human IL-6R. This Antibody has been shown to inhibit IL-6 mediated proliferation of XG-1 cells, and partially blocks binding of IL-6 to its receptor. BMS135 is applicable for FACS analysis

IL-6 is a multifunctional cytokine involved in the regulation of the immune response, hematopoiesis and acute phase response. It has been recognized to be a member of the alpha-helical cytokine family. IL-6 exerts its action via a cell surface receptor which consists of two subunits, an 80 kDa ligand binding subunit (gp80) of 468 amino acids and a 130 kDa signal transducing protein (gp130) of 896 amino acid residues. Characterisation of the extracellular portion of the 80 kDa IL-6 receptor revealed the existence of a single immunoglobulin-like domain in the NH2-terminal of the extracellular region, which does not contribute to ligand binding. The remainder of the extracellular domain however is essential for low affinity ligand binding, which consecutively triggers the association of the receptor and gp130 thus forming a high affinity binding site for IL-6.

A soluble form of the human gp80 protein has been detected in serum and urine samples. This 55 kDa protein representing the extracellular portion of gp80 is generated by shedding, a process that seems to be controlled by protein kinase C. It is still functional, indicating that soluble gp80 plays a biological role in promoting IL-6 activity. So far, the soluble IL-6 receptor is unique in acting as an agonist together with its ligand.

Applications Tested: Flow Cytometry.

Purity: >95%.