Mouse Interleukin-6 (mIL-6)		9
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MW (kDa): 26-36	UniProt ID: #P08505	Entrez-Gene Id: 16193
Background		IL-6 is a potent inducer of the acute phase response and is produced by T cells, macrophages, fibroblasts, endothelial, and other cells (1,2). IL-6 induces proliferation and differentiation and acts on E cells, T cells, thymocytes, and others. IL-6 in concert with TGF β is important for developing Th17 responses. IL-6 binds to IL-6R α and through this association induces gp130 homodimerization (1). gp130 homodimerization triggers the Jak/Stat cascade and the SHP2/MAPK (Erk) cascade (1,3,4). IL-6 also forms a complex with an IL-6R α splice variant that is non-membrane associated (3).The IL-6/soluble IL-6R α complex can then activate the gp130 signaling pathway on cells that express gp130 but not IL-6R α (3). IL-6, through increasing expression of proangiogenic VEGF, may contribute to metastatic breast cancer (5).
Endotoxin		Less than 0.01 ng endotoxin/1 μg mIL-6.
Purity		>98% as determined by SDS-PAGE of 6 μg reduced (+) and non-reduced (-) recombinant mIL-6. All lots are greater than 98% pure.
Source / Purificatio	on	Recombinant mouse IL-6 (mIL-6) Phe25-Thr211 (Accession #NP_112445) was expressed in human 293 cells at Cell Signaling Technology.
Bioactivity		The bioactivity of recombinant mIL-6 was determined in a B9 cell proliferation assay. The ED_{50} of each lot is between 0.5 and 20 pg/ml.
Background Refere	ences	1. Heinrich, P.C. et al. (1998) <i>Biochem J</i> 334 (Pt 2), 297-314. 2. Heinrich, P.C. et al. (1998) <i>Z Ernahrungswiss</i> 37 Suppl 1, 43-9. 3. Jones, S.A. (2005) <i>J Immunol</i> 175, 3463-8. 4. Jenkins, B.J. et al. (2004) <i>Mol Cell Biol</i> 24, 1453-63. 5. Hong, D.S. et al. (2007) <i>Cancer</i> 110, 1911-28.
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