RD SYSTEMS a biotechne brand

Monoclonal Rat IgG₁ Clone # 125605 Catalog Number: MAB4682

DESCRIPTION

Species Reactivity	Mouse		
Specificity	Detects mouse gp130 ELISAs. In sandwich immunoassays, no cross-reactivity or interference with recombinant human gp130, recombinant mouse (rm) rmIL-6, or rmIL-6R is observed.		
Source	Monoclonal Rat IgG ₁ Clone # 125605		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse gp130 Gln23-Glu617 Accession # Q00560		
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 either lyophilized or 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.			
Mouse gp130 Sandwich Immunoassay		Reagent	
ELISA Capture	2-8 µg/mL	Mouse gp130 Antibody (Catalog # MAB4682)	
ELISA Detection	0.1-0.4 µg/mL	Mouse gp130 Biotinylated Antibody (Catalog # BAF468)	
Standard		Recombinant Mouse gp130 Fc Chimera (Catalog # 468-MG)	
Neutralization	Measured by its ability to neutralize IL-6-mediated proliferation of the 7TD1 mouse hybridoma line. The Neutralization		



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Mouse gp130 Antibody

Monoclonal Rat IgG₁ Clone # 125605 Catalog Number: MAB4682

BACKGROUND

gp130, the common signal transducing receptor component shared by the functional receptor complexes of the IL-6 family of cytokines, belongs to the class I cytokine receptor family. Binding of IL-6 (IL-11) to either the membrane-anchored or soluble IL-6 R (IL-11 R) initiates the association of IL-6 R (IL-11 R) with gp130 which then undergoes homo-dimerization and signal transduction. With other IL-6 family cytokines, such as LIF and OSM, signal transduction is triggered by the hetero-dimerization of gp130 and LIF R or OSM R. gp130 is expressed in all organs examined. Soluble gp130, which apparently arises either from proteolytic cleavage of the membrane-bound receptor or from alternative splicing, has been detected in human serum. In *in vitro* experiments, natural or recombinant soluble gp130 has been shown to have inhibitory effects on OSM and CNTF activities.

References:

- 1. Narazaki, M. et al. (1993) Blood 82:1120.
- 2. Taga, T. and T. Kishimoto (1997) Annu. Rev. Immunol. 15:797.

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