

Mouse gp130 Biotinylated Antibody

Monoclonal Rat IgG_{2A} Clone # 125623 Catalog Number: BAM4681

	Mayee		
Species Reactivity	Mouse		
Specificity	Detects mouse gp130. No cross-reactivity with recombinant rat gp130 or recombinant human gp130 was observed.		
Source	Monoclonal Rat IgG _{2A} Clone # 125623		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse gp130		
	Met1-Glu617		
	Accession # Q00560		
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.		

	Recommended Concentration	Sample
Flow Cytometry	2.5 μg/10 ⁶ cells	M1 mouse myeloid leukemia cell line
Immunocytochemistry	8-25 μg/mL	Immersion fixed mouse splenocytes

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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.		
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

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. The in vivo functions of soluble gp130 are not clearly understood. In in vitro experiments, natural or recombinant soluble gp130 has been shown to have inhibitory effects on OSM and CNTF activities.

References:

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

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