Human gp130 Antibody

Monoclonal Mouse IgG_1 Clone # 28105

Catalog Number: MAB628

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human gp130 in ELISAs. In sandwich immunoassays, no significant cross-reactivity or interference with recombinant human (rh) CNTF, rhIL-6, rhIL-6 R, recombinant mouse (rm) IL-6, rhIL-11, rhLIF, rhLIF R, rmLIF, or rhOSM is observed. This antibody blocks the human gp130-mediated bioactivities induced by IL-6, IL-11, LIF, OSM, and CNTF.
Source	Monoclonal Mouse IgG_1 Clone # 28105
Purification	Protein A or G purified from ascites
Immunogen	*Sf* 21-derived recombinant human gp130 extracellular domain Leu24-Glu619 (Glu619-Asp, predicted) Accession # P40189
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. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

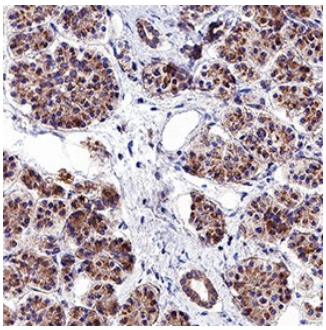
APPLICATIONS

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.*

	Recommended Concentration	Sample
Immunohistochemistry	5-25 µg/mL	See Below
Human gp130 Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Human gp130 Antibody (Catalog # MAB628)
ELISA Detection	0.1-0.4 µg/mL	Human gp130 Biotinylated Antibody (Catalog # BAF228)
Standard		Recombinant Human gp130 (Catalog # 228-GP)
Neutralization	Measured by its ability to neutralize Oncostatin M/OSM-induced proliferation in the TF-1 human erythroleukemic cell line. Kitamura, T. *et al*. (1989) J. Cell Physiol. **140**:323. The Neutralization Dose (ND_{50}) is typically 0.02-0.1 µg/mL in the presence of 0.8 ng/mL Recombinant Human Oncostatin M/OSM.	

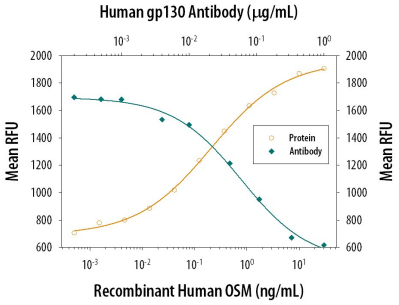
DATA

Immunohistochemistry



gp130 in Human Pancreas Tissue. gp130 was detected in immersion fixed paraffin-embedded sections of human pancreas tissue using Mouse Anti-Human gp130 Monoclonal Antibody (Catalog # MAB628) at 5 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # Catalog # CTS013). Tissue was stained using the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (brown; Catalog # Catalog # VC001) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm in exocrine cells. View our protocol for IHC Staining with VisUCyte HRP Polymer Detection Reagents.

Neutralization



Cell Proliferation Induced by Oncostatin M/OSM and Neutralization by Human gp130 Antibody. Recombinant Human Oncostatin M/OSM stimulates proliferation in the TF-1 human erythroleukemic cell line in a dose-dependent manner (orange line), as measured by Resazurin (Catalog # Catalog # AR002). Proliferation elicited by Recombinant Human Oncostatin M/OSM (0.8 ng/mL) is neutralized (green line) by increasing concentrations of Mouse Anti-Human gp130 Monoclonal Antibody (Catalog # MAB628). The $ND_{50}$is typically 0.02-0.1 µg/mL.

PREPARATION AND STORAGE

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
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, also known as CD130, belongs to the class I cytokine receptor family. It functions as a signal transducing receptor component in the receptor complexes of the IL-6 family of cytokines including IL-6, IL-11, LIF, OSM, CNTF and CT-1.

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