NEUROMICS

GDNF R α-1 Data Sheet

Catalog Number:	MO15093	**Host:**	Mouse
Product Type:	Protein G purified IgG_{2B}. Clone: 81401	**Species Reactivity:**	Rat
Immunogen Sequence:	Hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, NS0-derived, recombinant rat GDNF family receptor alpha 1 (rrGFRα-1) extracellular domain.	**Format:**	Liquid 1mg/ml Solution in phosphate-buffered saline (PBS) with 5% Trehlose
Applications:	Immunohistochemistry -25 µg/mL Western Blot-1 - 2 µg/mL Dilutions listed as a recommendation. Optimal dilution should be determined by investigator.		
Storage:	Antibody can be aliquotted and stored frozen at -20° C to -70° C in a manual defrost freezer for six months without detectable loss of activity. The antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. *Avoid repeated freeze-thaw cycles.*		

Application Notes

Specificity

Less than 0.25% cross-reactivity was observed with rhIGF-I R, rhIGFBP-1, rhIGFBP-2, rhIGFBP-4, rhIGFBP-5, and rhIGFBP-6.

Western Blot

This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human IGFBP-3. Using a colorimetric detection system, the detection limit for rhIGFBP-3 is approximately 25 ng/lane under non-reducing and reducing conditions. Chemiluminescent detection with WesternGlo Chemiluminescent Detection Substrate will increase sensitivity by 5 to 50 fold.

Immunohistochemistry

This antibody was used at a concentration of 25 µg/mL with appropriate secondary reagents to detect IGFBP-3 in paraffin-embedded human placenta tissue sections.

FOR RESEARCH USE ONLY

10/07v2

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Figure 1

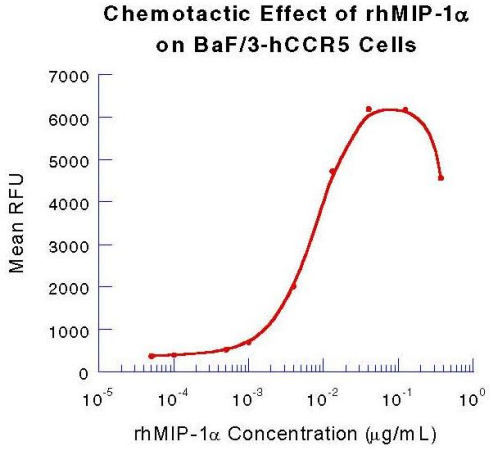

Figure 2

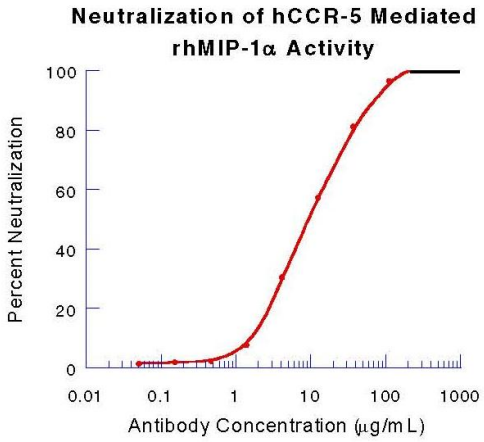

Figure 1

Human MIP-1α chemoattracts BaF/3-hCCR5 cells. The number of cells that have migrated through to the lower chamber are quantitated using Resazurin staining. The ED_{50} for this effect is typically 0.003 - 0.01 µg/mL.

Figure 2

To measure the ability of the antibody to block rhMIP-1α mediated chemotaxis of BaF/3 hCCR5 cells, rhMIP-1α at 40 ng/mL was added to the lower compartment of a 96-well chemotaxis chamber (NeuroProbe, Cabin John, MD). The chemotaxis chamber was then assembled using a PVP-free polycarbonate filter (5 micron pore size). Serial dilutions of the antibody (at the concentrations indicated) and 0.25 x 10^6 cells/well were added to the top wells of the chamber. After incubation for 3 hours at 37° C in a 5% CO_2 humidified incubator, the chamber was disassembled and the cells that migrated through to the lower chamber were transferred to a working plate and quantitated using Resazurin Fluorescence. As shown in Figure 2, the ND_{50} for this lot of antibody is approximately 5 - 20 µg/mL.

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