

Growth Regulated Oncogene Beta (GROb) Active Protein | GROb active protein

Active Growth Regulated Oncogene Beta (GROb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA148193	E Coli	Rat	Activity Assay, Cell Culture

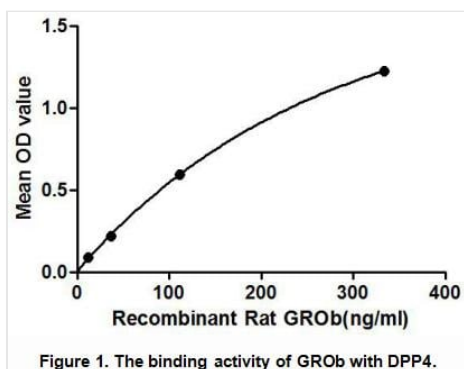
PRODUCT SYNONYMS

Growth Regulated Oncogene Beta (GROb); Active Growth Regulated Oncogene Beta (GROb); CXCL2; SCYB2; MIP2; GRO2; MIP2a; MGSAb; CINC2a; HSF; Macrophage inflammatory protein 2-alpha; Hematopoietic synergistic factor; Chemokine(C-X-C-Motif)ligand 2; GROb active protein

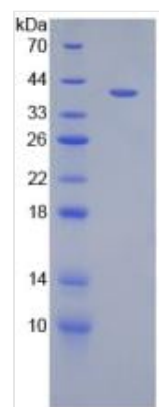
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Rat
Purity/Purification	> 97%
Form/Format	Freeze-dried powder
Sequence Length	100
Applicable Applications for GROb active protein	Activity Assay, Cell Culture
Tag	N-terminal His and GST Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Ser32~Asn100
Isoelectric Point	6.7

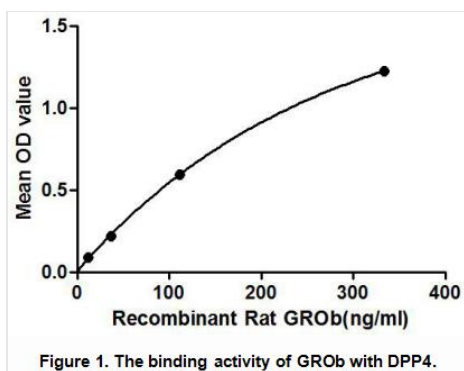
IMAGES



Application Data



SDS-PAGE



Activity

Growth Regulated Oncogene Beta (GROb) is a small cytokine belonging to the CXC chemokine family which produced by activated monocytes and neutrophils and expressed at sites of inflammation. Hematopoietic chemokine, which, in vitro, suppresses hematopoietic progenitor cell proliferation. Besides, Dipeptidyl Peptidase IV (DPP4) has been identified as an interactor of GROb, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat GROb and recombinant rat DPP4. Briefly, GROb were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100ul were then transferred to DPP4-coated microtiter wells and incubated for 2h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-GROb pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50uL stop solution to the wells and read at 450nm immediately. The binding activity of GROb and DPP4 was shown in Figure 1, and this effect was in a dose dependent manner.

ADDITIONAL INFORMATION

Product Categories/Family for GROb active protein	Cytokine; Tumor immunity; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	16758460
NCBI GeneID	114105
NCBI Accession #	NP_446099.1
NCBI GenBank Nucleotide #	NM_053647.1
UniProt Accession #	P30348; Q5WA60
Molecular Weight	Predicted Molecular Weight: 37.6kDa Accurate Molecular Weight: 41kDa
NCBI Official Full Name	C-X-C motif chemokine 2
NCBI Official Synonym Full Names	C-X-C motif chemokine ligand 2
NCBI Official Symbol	Cxcl2
NCBI Official Synonym Symbols	Mip-2; Scyb2
NCBI Protein Information	C-X-C motif chemokine 2
UniProt Protein Name	C-X-C motif chemokine 2
UniProt Gene Name	Cxcl2
UniProt Synonym Gene Names	Cinc3; Mip-2; Mip2; Scyb2; CINC-3; MIP2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

