

# Anti-GP88 Reference Antibody (AG01)

Catalog # APR11384

## Product Information

|                   |                                                                |
|-------------------|----------------------------------------------------------------|
| Application       | Functional assay, Kinetics (SPR), Kinetics (BLI), FACS, E, FTA |
| Primary Accession | <a href="#">P28799</a>                                         |
| Reactivity        | Human                                                          |
| Clonality         | Monoclonal                                                     |
| Isotype           | IgG1                                                           |
| Calculated MW     | 63544                                                          |

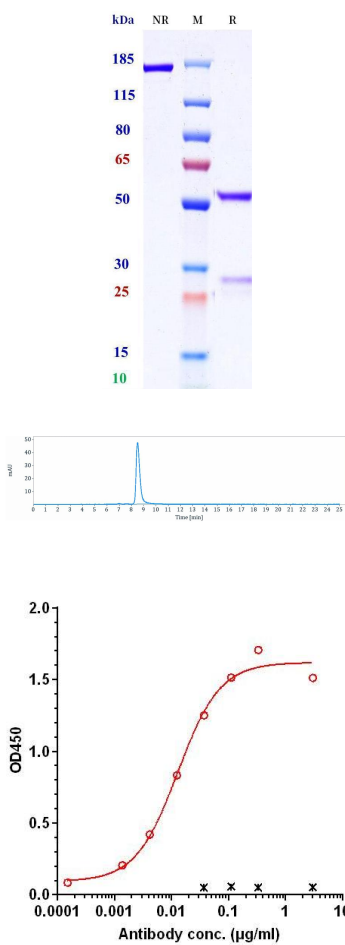
## Additional Information

|                    |      |
|--------------------|------|
| Target/Specificity | GP88 |
| Expression system  | CHO  |

## Protein Information

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | GRN ( <a href="#">HGNC:4601</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Function          | Secreted protein that acts as a key regulator of lysosomal function and as a growth factor involved in inflammation, wound healing and cell proliferation (PubMed: <a href="#">12526812</a> , PubMed: <a href="#">18378771</a> , PubMed: <a href="#">28073925</a> , PubMed: <a href="#">28453791</a> , PubMed: <a href="#">28541286</a> ). Regulates protein trafficking to lysosomes, and also the activity of lysosomal enzymes (PubMed: <a href="#">28453791</a> , PubMed: <a href="#">28541286</a> ). Also facilitates the acidification of lysosomes, causing degradation of mature CTSD by CTSB (PubMed: <a href="#">28073925</a> ). In addition, functions as a wound-related growth factor that acts directly on dermal fibroblasts and endothelial cells to promote division, migration and the formation of capillary-like tubule structures (By similarity). Also promotes epithelial cell proliferation by blocking TNF-mediated neutrophil activation preventing release of oxidants and proteases (PubMed: <a href="#">12526812</a> ). Moreover, modulates inflammation in neurons by preserving neurons survival, axonal outgrowth and neuronal integrity (PubMed: <a href="#">18378771</a> ). |
| Cellular Location | Secreted. Lysosome Note=Endocytosed by SORT1 and delivered to lysosomes (PubMed:21092856, PubMed:28073925). Targeted to lysosome by PSAP via M6PR and LRP1, in both biosynthetic and endocytic pathways (PubMed:26370502, PubMed:28073925). Co-localized with GBA1 in the intracellular trafficking compartments until to lysosome (By similarity) {ECO:0000250 UniProtKB:P28798, ECO:0000269 PubMed:21092856, ECO:0000269 PubMed:26370502, ECO:0000269 PubMed:28073925}                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Tissue Location   | In myelogenous leukemic cell lines of promonocytic, promyelocytic, and proerythroid lineage, in fibroblasts, and very strongly in epithelial cell lines. Present in inflammatory cells and bone marrow. Highest levels in kidney                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

Images



Anti-GP88 Reference Antibody (AG01) on SDS-PAGE under reducing (R) condition. The purity of the protein is greater than 95%.

The purity of Anti-GP88 Reference Antibody (AG01) is 98.6%, determined by SEC-HPLC.

Immobilized hu-PGRN-his at 2 µg/mL can bind AG01, EC50= 0.01288 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.