

## Rabbit anti-Human GRSF1 Polyclonal Antibody | anti-GRSF1 antibody

Anti-GRSF1 Antibody

| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                                                                         |
|-----------|--------|------------|----------------------------------------------------------------------------------------------------------------------|
| AAA19315  | Rabbit | Human      | Western Blot, Immunohistochemistry, Immunocytochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, ELISA |

### PRODUCT SYNONYMS

GRSF1; Polyclonal Antibody; Anti-GRSF1 Antibody; G-rich sequence factor 1; GRSF-1; G-rich RNA sequence binding factor 1; anti-GRSF1 antibody

### PRODUCT SPECIFICATIONS

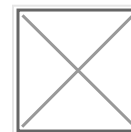
|                                                 |                                                                                                                                                                                                            |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                                     |
| Reactivity                                      | Human                                                                                                                                                                                                      |
| Clonality                                       | Polyclonal                                                                                                                                                                                                 |
| Isotype                                         | Rabbit IgG                                                                                                                                                                                                 |
| Specificity                                     | Rabbit IgG polyclonal antibody for GRSF1 detection.                                                                                                                                                        |
| Purity/Purification                             | Immunogen affinity purified.                                                                                                                                                                               |
| Form/Format                                     | Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                     |
| Applicable Applications for anti-GRSF1 antibody | WB (Western Blot), IHC (Immunohistochemistry), ICC (Immunocytochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)                                                         |
| Application Notes                               | WB: 0.1-0.25ug/ml Human <br>IHC-P: 2-5ug/ml Human <br>ICC/IF: 5ug/ml Human <br>FC/FACS/FCM: 1-3ug/1x10 <sup>6</sup> cells Human <br>Direct ELISA: 0.1-0.5ug/ml Human                                       |
| Immunogen                                       | E Coli-derived human GRSF1 recombinant protein (Position: Q119-M405).                                                                                                                                      |
| Reconstitution                                  | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                       |
| Recommended Detection Systems                   | Recommended Detection Systems                                                                                                                                                                              |
| Preparation and Storage                         | Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

### IMAGES



#### IF (Immunofluorescence)

Figure 6. IF analysis of GRSF1 using anti-GRSF1 antibody (AAA19315). GRSF1 was detected in immunocytochemical section of MCF-7 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5µg/mL rabbit anti-GRSF1 Antibody (AAA19315) overnight at 4 degree C. DyLight®488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



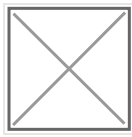
#### IHC (Immunohistochemistry)

Figure 5. IHC analysis of GRSF1 using anti-GRSF1 antibody (AAA19315). GRSF1 was detected in paraffin-embedded section of human prostate cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/mL rabbit anti-GRSF1 Antibody (AAA19315) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



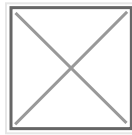
IHC (Immunohistochemistry)

Figure 4. IHC analysis of GRSF1 using anti-GRSF1 antibody (AAA19315).GRSF1 was detected in paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2&mu;g/ml rabbit anti-GRSF1 Antibody (AAA19315) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



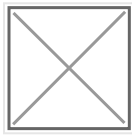
WB (Western Blot)

Figure 1. Western blot analysis of GRSF1 using anti-GRSF1 antibody (AAA19315).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions.Lane 1: human Hela whole cell lysatesLane 2: human Jurkat whole cell lysatesLane 3: human HEK293 whole cell lysatesLane 4: human Raji whole cell lysatesLane 5: human MCF-7 whole cell lysatesLane 6: human HEPG2 whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1. 5 hour at RT. The membrane was incubated with rabbit anti-GRSF1 antigen affinity purified polyclonal antibody (Catalog # AAA19315) at 0. 25 &mu;g/mL overnight at 4 degree C, then washed with TBS-0. 1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # with Tanon 5200 system. A specific band was detected for GRSF1 at approximately 53KD. The expected band size for GRSF1 is at 53KD.



FCM (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U937 cells using anti-GRSF1 antibody (AAA19315).Overlay histogram showing U937 cells stained with AAA19315 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GRSF1 Antibody (AAA19315, 1&mu;g/1x106 cells) for 30 min at 20 degree C. DyLight&reg;488 conjugated goat anti-rabbit IgG (5-10&mu;g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1&mu;g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HL-60 cells using anti-GRSF1 antibody (AAA19315).Overlay histogram showing HL-60 cells stained with AAA19315 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-GRSF1 Antibody (AAA19315, 1&mu;g/1x106 cells) for 30 min at 20 degree C. DyLight&reg;488 conjugated goat anti-rabbit IgG (5-10&mu;g/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1&mu;g/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-GRSF1 antibody | G-rich sequence factor 1 (GRSF1) is a regulator of post-transcriptional mitochondrial gene expression. The protein encoded by this gene is a cellular protein that binds RNAs containing the G-rich element. The protein is localized in the cytoplasm, and has been shown to stimulate translation of viral mRNAs in vitro. Multiple transcript variants encoding different isoforms have been found for this gene.                                                                                                                                                      |
| References                                          | 1. Banga, S. S., Ozer, H. L., Wilusz, J. Assignment of GRSF1 encoding a poly(A)+ mRNA binding protein to human chromosome 4q13. Cytogenet. Cell Genet. 73: 295-296, 1996.<br>2. Qian, Z., Wilusz, J. GRSF-1: a poly(A)+ mRNA binding protein which interacts with a conserved G-rich element. Nucleic Acids Res. 22: 2334-2343, 1994.<br>3. Qian, Z., Wilusz, J. An RNA-binding protein specifically interacts with a functionally important domain of the downstream element of the simian virus 40 late polyadenylation signal. Molec. Cell. Biol. 11: 5312-5320, 1991. |

NCBI AND UNIPROT INFORMATION

|                                  |                                                |
|----------------------------------|------------------------------------------------|
| NCBI GI #                        | 149193319                                      |
| NCBI GeneID                      | 2926                                           |
| NCBI Accession #                 | NP_001091947.1                                 |
| NCBI GenBank Nucleotide #        | NM_001098477.1                                 |
| UniProt Accession #              | Q12849; Q4W5S5; Q6ZST3; Q8IWD6; Q8NBD2; B3KPW0 |
| Molecular Weight                 | 50 kDa                                         |
| NCBI Official Full Name          | G-rich sequence factor 1 isoform 2             |
| NCBI Official Synonym Full Names | G-rich RNA sequence binding factor 1           |

|                            |                                  |
|----------------------------|----------------------------------|
| NCBI Official Symbol       | GRSF1                            |
| NCBI Protein Information   | G-rich sequence factor 1; GRSF-1 |
| UniProt Protein Name       | G-rich sequence factor 1         |
| UniProt Gene Name          | <b>GRSF1</b>                     |
| UniProt Synonym Gene Names | GRSF-1                           |
| UniProt Entry Name         | GRSF1_HUMAN                      |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/grsf1-antibody-western-blot-immunohistochemistry-immunocytochemistry-immunofluorescence-flow-cytometry-direct-elisa-elisa/19315>