

Rabbit anti-Human Grainyhead-like protein 1/GRHL1 Polyclonal Antibody | anti-GRHL1 antibody

Anti-Grainyhead-like protein 1/GRHL1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125789	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

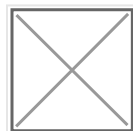
PRODUCT SYNONYMS

Grainyhead-like protein 1/GRHL1; Polyclonal Antibody; Anti-Grainyhead-like protein 1/GRHL1 Antibody; Grhl1; Mgr; Tcfcp2l2; Grainyhead-like protein 1 homolog; Transcription factor CP2-like 2; Transcription factor LBP-32; grainyhead like transcription factor 1; anti-GRHL1 antibody

PRODUCT SPECIFICATIONS

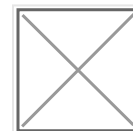
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for Grainyhead-like protein 1/GRHL1 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.005mg NaN3.
Applicable Applications for anti-GRHL1 antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Grainyhead-like protein 1/GRHL1 recombinant protein (Position: M1-I618).
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



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of U251 cells using anti-Grainyhead-like protein 1/GRHL1 antibody (AAA125789). Overlay histogram showing U251 cells stained with AAA125789 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Grainyhead-like protein 1/GRHL1 Antibody (AAA125789, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of Grainyhead-like protein 1/GRHL1 using anti-Grainyhead-like protein 1/GRHL1 antibody (AAA125789). Grainyhead-like protein 1/GRHL1 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-Grainyhead-like protein 1/GRHL1 Antibody (AAA125789) overnight at 4 degree C. DyLight488 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.



WB (Western Blot)

Figure 1. Western blot analysis of Grainyhead-like protein 1/GRHL1 using anti-Grainyhead-like protein 1/GRHL1 antibody (AAA125789). 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 T-47D whole cell lysates Lane 2: human MDA-MB-453 whole cell lysates Lane 3: human MCF-7 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-Grainyhead-like protein 1/GRHL1 antigen affinity purified polyclonal antibody (Catalog # AAA125789) at 0.5 µg/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 with Tanon 5200 system. A specific band was detected for Grainyhead-like protein 1/GRHL1 at approximately 70KD. The expected band size for Grainyhead-like protein 1/GRHL1 is at 70KD.

ADDITIONAL INFORMATION

Related Product Information for anti-GRHL1 antibody	This gene encodes a member of the grainyhead family of transcription factors. The encoded protein can exist as a homodimer or can form heterodimers with sister-of-mammalian grainyhead or brother-of-mammalian grainyhead. This protein functions as a transcription factor during development.
References	<ol style="list-style-type: none">Huang, N., Miller, W. L. Cloning of factors related to HIV-inducible LBP proteins that regulate steroidogenic factor-1-independent human placental transcription of the cholesterol side-chain cleavage enzyme, P450scc. J. Biol. Chem. 275: 2852-2858, 2000.Jacobs, J., Atkins, M., Davie, K., Imrichova, H., Romanelli, L., Christiaens, V., Hulselmans, G., Potier, D., Wouters, J., Taskiran, I. I., Paciello, G., Gonzalez-Blas, C. B., Koldere, D., Aibar, S., Halder, G., Aerts, S. The transcription factor grainy head primes epithelial enhancers for spatiotemporal activation by displacing nucleosomes. Nature Genet. 50: 1011-1020, 2018.

NCBI AND UNIPROT INFORMATION

NCBI GI #	239735569
NCBI GeneID	29841
NCBI Accession #	NP_937825.2
NCBI GenBank Nucleotide #	NM_198182.2
UniProt Accession #	Q9NZI5; Q53T93; Q6NWN7; Q6NWN8; Q6NWN9; Q8NI33; A6NLA4; B2R7E4; B5MEC2
Molecular Weight	70,113 Da
NCBI Official Full Name	grainyhead-like protein 1 homolog
NCBI Official Synonym Full Names	grainyhead-like 1 (Drosophila)
NCBI Official Symbol	GRHL1
NCBI Official Synonym Symbols	MGR; NH32; LBP32; TFCP2L2
NCBI Protein Information	grainyhead-like protein 1 homolog; LBP protein 32; mammalian grainyhead; transcription factor LBP-32; transcription factor CP2-like 2
UniProt Protein Name	Grainyhead-like protein 1 homolog
UniProt Gene Name	GRHL1
UniProt Synonym Gene Names	LBP32; MGR; TFCP2L2
UniProt Entry Name	GRHL1_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/grainyhead-like-protein-1-grhl1-antibody-direct-elisa-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/125789>