



# GPR56 Polyclonal Antibody

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| <b>Catalog No</b>         | BYab-13344                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Reactivity</b>         | Human;Rat;Mouse;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Applications</b>       | WB;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Gene Name</b>          | GPR56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Protein Name</b>       | G-protein coupled receptor 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human GPR56. AA range:251-300                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Specificity</b>        | GPR56 Polyclonal Antibody detects endogenous levels of GPR56 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Formulation</b>        | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>             | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Dilution</b>           | Western Blot: 1/500 - 1/2000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Synonyms</b>           | GPR56; TM7LN4; TM7XN1; G-protein coupled receptor 56; Protein TM7XN1                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Observed Band</b>      | 78kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Cell Pathway</b>       | Cell membrane ; Multi-pass membrane protein .; [ADGRG1 N-terminal fragment]: Secreted .; [ADGRG1 C-terminal fragment]: Membrane raft . Interaction with its ligand COL3A1 leads to the release of ADGRG1 NT from the membrane and triggers the association of ADGRG1 CT with lipid rafts. .                                                                                                                                                                                                                                      |
| <b>Tissue Specificity</b> | Widely distributed with highest levels found in thyroid gland, brain and heart. Expressed in a great number of tumor cells. Expression is down-regulated in different tumors from highly metastatic cells.                                                                                                                                                                                                                                                                                                                       |
| <b>Function</b>           | disease:Defects in GPR56 are the cause of bilateral frontoparietal polymicrogyria (BFPP) [MIM:606854]. BFPP is characterized by disorganized cortical lamination that is most severe in frontal cortex.,function:Could be involved in cell-cell interactions.,similarity:Belongs to the G-protein coupled receptor 2 family. LN-TM7 subfamily.,similarity:Contains 1 GPS domain.,tissue specificity:Widely distributed with highest levels found in thyroid gland, brain and heart. Expressed in a great number of tumor cells., |

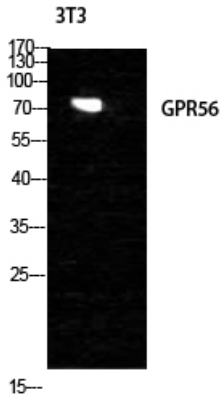
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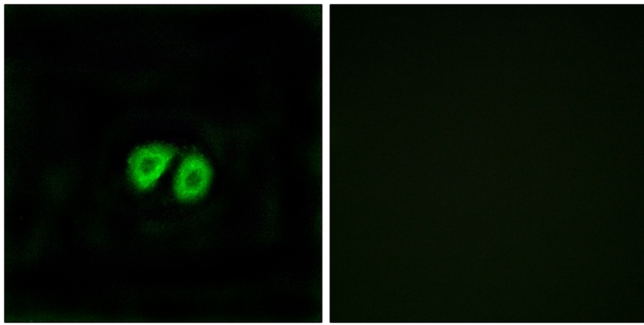
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|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background                | This gene encodes a member of the G protein-coupled receptor family and regulates brain cortical patterning. The encoded protein binds specifically to transglutaminase 2, a component of tissue and tumor stroma implicated as an inhibitor of tumor progression. Mutations in this gene are associated with a brain malformation known as bilateral frontoparietal polymicrogyria. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014], |
| matters needing attention | Avoid repeated freezing and thawing!                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Usage suggestions         | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.                                                                                                                                                                                                                                                                                                                                                  |



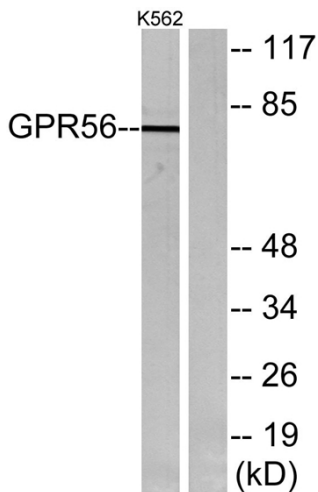
## Products Images



Western Blot analysis of NIH-3T3 cells using GPR56 Polyclonal Antibody diluted at 1:1000



Immunofluorescence analysis of MCF7 cells, using GPR56 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from K562 cells, using GPR56 Antibody. The lane on the right is blocked with the synthesized peptide.

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