

KD-Validated Anti-Growth Factor Receptor Bound Protein 7 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1035**Specification****KD-Validated Anti-Growth Factor Receptor Bound Protein 7 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	Q14451
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 60 kDa, observed, 60 kDa kDa
Gene Name	GRB7
Aliases	GRB7; Growth Factor Receptor Bound Protein 7; Growth Factor Receptor-Bound Protein 7; Epidermal Growth Factor Receptor GRB-7; GRB7 Adapter Protein; B47
Immunogen	A synthesized peptide derived from human GRB7

KD-Validated Anti-Growth Factor Receptor Bound Protein 7 Rabbit Monoclonal Antibody - Additional Information

Gene ID	2886
Other Names	
Growth factor receptor-bound protein 7, B47, Epidermal growth factor receptor GRB-7, GRB7 adapter protein, GRB7	

KD-Validated Anti-Growth Factor Receptor Bound Protein 7 Rabbit Monoclonal Antibody - Protein Information**Name** GRB7**Function**

Adapter protein that interacts with the cytoplasmic domain of numerous receptor kinases and modulates down-stream signaling. Promotes activation of down-stream protein kinases, including STAT3, AKT1, MAPK1 and/or MAPK3. Promotes activation of HRAS. Plays a role in signal transduction in response to EGF. Plays a role in the regulation of cell proliferation and cell migration. Plays a role in the assembly and stability of RNA stress granules. Binds to the 5'UTR of target mRNA molecules and represses translation of target mRNA species, when not phosphorylated. Phosphorylation impairs RNA binding and promotes stress granule disassembly during recovery after cellular stress (By similarity).

Cellular Location

Cytoplasm. Cell junction, focal adhesion. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cytoplasmic granule {ECO:0000250|UniProtKB:Q03160}. Cell projection.

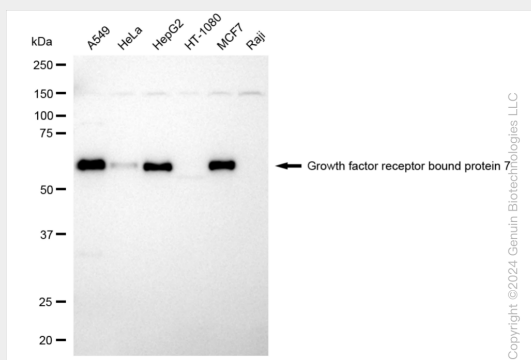
Note=Predominantly cytoplasmic. Detected in stress granules, where mRNA is stored under stress conditions {ECO:0000250|UniProtKB:Q03160}

KD-Validated Anti-Growth Factor Receptor Bound Protein 7 Rabbit Monoclonal Antibody - Protocols

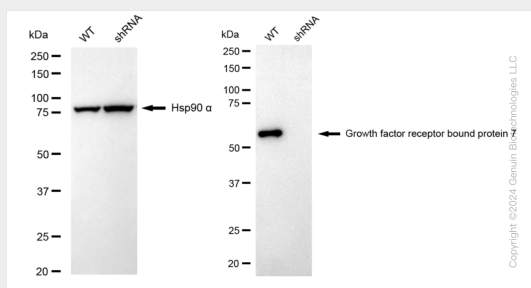
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

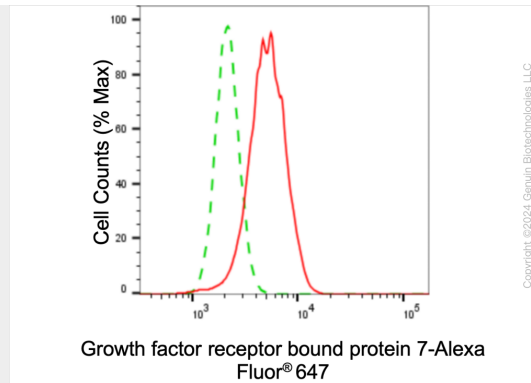
KD-Validated Anti-Growth Factor Receptor Bound Protein 7 Rabbit Monoclonal Antibody - Images



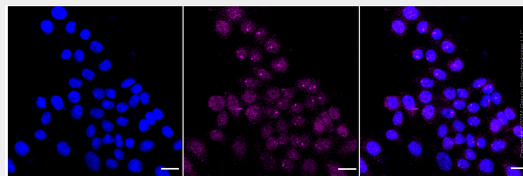
Western blotting analysis using anti-growth factor receptor bound protein 7 antibody (Cat#AGI1035). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-growth factor receptor bound protein 7 antibody (Cat#AGI1035, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-growth factor receptor bound protein 7 antibody (Cat#AGI1035). Growth factor receptor bound protein 7 (GRB7) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-growth factor receptor bound protein 7 antibody (Cat#AGI1035, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of growth factor receptor bound protein 7 expression in HepG2 cells using growth factor receptor bound protein 7 antibody (Cat#AGI1035, 1:2,000). Green, isotype control; red, growth factor receptor bound protein 7.



Immunocytochemical staining of HepG2 cells with anti-growth factor receptor bound protein 7 antibody (Cat#AGI1035, 1:1,000). Nuclei were stained blue with DAPI; Growth factor receptor bound protein 7 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.