

GRB7 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9469c**Specification**

GRB7 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q14451](#)**GRB7 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 2886**Other Names**

Growth factor receptor-bound protein 7, B47, Epidermal growth factor receptor GRB-7, GRB7 adapter protein, GRB7

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GRB7 Antibody (Center) Blocking Peptide - 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}

GRB7 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

GRB7 Antibody (Center) Blocking Peptide - Images

GRB7 Antibody (Center) Blocking Peptide - Background

GRB7 belongs to a small family of adapter proteins that are known to interact with a number of receptor tyrosine kinases and signaling molecules. This gene encodes a growth factor receptor-binding protein that interacts with epidermal growth factor receptor (EGFR) and ephrin receptors. The protein plays a role in the integrin signaling pathway and cell migration by binding with focal adhesion kinase (FAK).

GRB7 Antibody (Center) Blocking Peptide - References

??epetris, R.S., et al. Nat. Struct. Mol. Biol. 16(8):833-839(2009)??hu, P.Y., et al. J. Biol. Chem. 284(30):20215-20226(2009)??avaddat, N., et al. Cancer Epidemiol. Biomarkers Prev. 18(1):255-259(2009)??ai, T., et al. Carcinogenesis 29(3):473-479(2008)??puches, A.M., et al. J. Mol. Recognit. 20(4):245-252(2007)