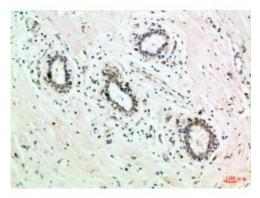


Anti-GRB7 antibody





Description Rabbit polyclonal to GRB7.

Model STJ98983

Host Rabbit

Reactivity Human, Mouse, Rat

Applications ELISA, WB

Immunogen Synthetic peptide from human GRB7 protein.

Immunogen Region 30-100 aa

Gene ID 2886

Gene Symbol GRB7

Dilution range WB 1:500-2000ELISA 1:10000-20000

Specificity The antibody detects endogenous GRB7.

Purification The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Note For Research Use Only (RUO).

Protein Name Growth factor receptor-bound protein 7 B47 Epidermal growth factor receptor

GRB-7 GRB7 adapter protein

Clonality Polyclonal

Conjugation Unconjugated

Isotype IgG

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Concentration 1 mg/ml

Storage Instruction Store at -20°C, and avoid repeat freeze-thaw cycles.

Database Links <u>HGNC:4567OMIM:601522</u>

Alternative Names Growth factor receptor-bound protein 7 B47 Epidermal growth factor receptor

GRB-7 GRB7 adapter protein

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.

Sequence and Domain Family The PH domain mediates interaction with membranes containing

phosphoinositides.

Cellular Localization Cytoplasm Cell junction, focal adhesion Cell membrane. Peripheral

membrane protein. Cytoplasmic side Cytoplasmic granule Cell projection. Predominantly cytoplasmic. Detected in stress granules, where mRNA is

stored under stress conditions.

Post-translational Phosphorylated on serine and threonine residues in response to heregulin. **Modifications** Phosphorylated on tyrosine residues by TEK/TIE2. Phosphorylated on

tyrosine residues in response to NTN1 signaling. Phosphorylation promotes

stress granule disassembly during recovery after cellular stress.

Phosphorylated on tyrosine residues by PTK2/FAK1, and possibly also other kinases. Phosphorylation is enhanced by activation of receptor kinases.

Tyrosine phosphorylation is essential for activation of down-stream protein

kinases.

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