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GIGYF2 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22003c

Specification

GIGYF2 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q6Y7W6
Other Accession	Q6Y7W8
Reactivity	**Human**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**150070**

GIGYF2 Antibody (Center) - Additional Information

Gene ID 26058

Other Names
PERQ amino acid-rich with GYF domain-containing protein 2, GRB10-interacting GYF protein 2, Trinucleotide repeat-containing gene 15 protein, GIGYF2, KIAA0642, PERQ2, TNRC15

Target/Specificity
This GIGYF2 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 835-869 amino acids from the Central region of human GIGYF2.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
GIGYF2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

GIGYF2 Antibody (Center) - Protein Information

Name GIGYF2 {ECO:0000303|PubMed:12771153, ECO:0000312|HGNC:HGNC:11960}

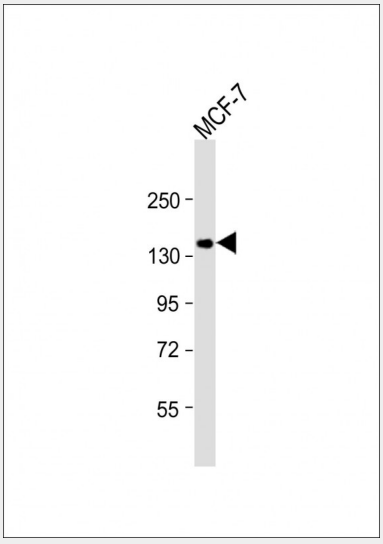
Function Key component of the 4EHP-GYF2 complex, a multiprotein complex that acts as a repressor of translation initiation (PubMed:22751931, PubMed:31439631, PubMed:35878012). In the 4EHP-GYF2 complex, acts as a factor that bridges EIF4E2 to ZFP36/TTP, linking translation repression with mRNA decay (PubMed:31439631). Also recruits and bridges the association of the 4EHP complex with the decapping effector protein DDX6, which is required for the ZFP36/TTP-mediated down-regulation of AU-rich mRNA (PubMed:31439631). May act cooperatively with GRB10 to regulate tyrosine kinase receptor signaling, including IGF1 and insulin receptors (PubMed:12771153). In association with EIF4E2, assists ribosome-associated quality control (RQC) by sequestering the mRNA cap, blocking ribosome initiation and decreasing the translational load on problematic messages. Part of a pathway that works in parallel to RQC-mediated degradation of the stalled nascent polypeptide (PubMed:32726578). GIGYF2 and EIF4E2 work downstream and independently of ZNF598, which seems to work as a scaffold that can recruit them to faulty mRNA even if alternative recruitment mechanisms may exist (PubMed:32726578).

GIGYF2 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GIGYF2 Antibody (Center) - Images



Anti-GIGYF2 Antibody (Center) at 1:1000 dilution + MCF-7 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 150 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

GIGYF2 Antibody (Center) - Background

May act cooperatively with GRB10 to regulate tyrosine kinase receptor signaling, including IGF1 and insulin receptors.

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Ota T.,et al.Nat. Genet. 36:40-45(2004).