

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}

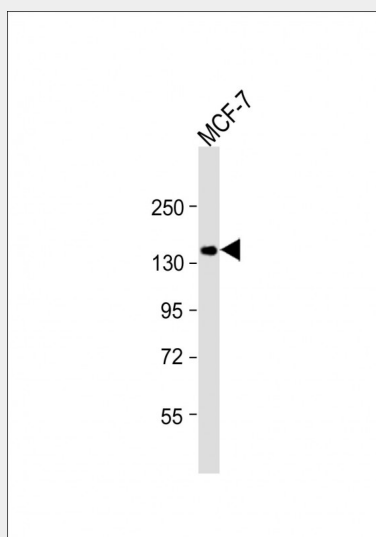
Function Key component of the 4EHP-GYF2 complex, a multiprotein complex that acts as a repressor of translation initiation (PubMed:[22751931](#), PubMed:[31439631](#), PubMed:[35878012](#)). In the 4EHP-GYF2 complex, acts as a factor that bridges EIF4E2 to ZFP36/TTP, linking translation repression with 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 Cytometry](#)
- [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.

GIGYF2 Antibody (Center) - References

Giovannone B.,et al.J. Biol. Chem. 278:31564-31573(2003).
Ishikawa K.,et al.DNA Res. 5:169-176(1998).
Nakajima D.,et al.DNA Res. 9:99-106(2002).
Lauber J.,et al.Submitted (JUN-2003) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).