

# GIGYF2 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP22003c

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">Q6Y7W6</a>
<b>Other Accession</b>	<a href="#">Q6Y7W8</a>
<b>Reactivity</b>	Human, Mouse
<b>Predicted</b>	Mouse
<b>Host</b>	Rabbit
<b>Clonality</b>	polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB54694
<b>Calculated MW</b>	150070

## Additional Information

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<b>Gene ID</b>	26058
<b>Other Names</b>	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
<b>Target/Specificity</b>	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.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	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.
<b>Storage</b>	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.
<b>Precautions</b>	GIGYF2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	GIGYF2 {ECO:0000303 PubMed:12771153, ECO:0000312 HGNC:HGNC:11960}
<b>Function</b>	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](#)).

## Background

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

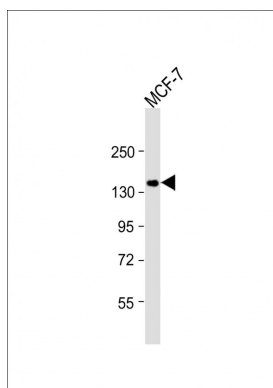
## References

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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).

## Images

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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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.