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GIGYF2 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22003c

Product Information

Application	WB, E
Primary Accession	Q6Y7W6
Other Accession	Q6Y7W8
Reactivity	Human, Mouse
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB54694
Calculated MW	150070

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.

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).

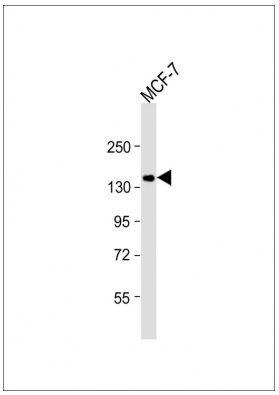
Background

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

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).

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.

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