

Product name:	DAP-5 Rabbit Polyclonal Antibody
Cat number:	ABN09785
Conjugate:	Unconjugated
Size:	100µL
Clone:	Polyclonal
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	The antiserum was produced against synthesized peptide derived from human EIF4G2. AA range:41-90
Reactivity:	Human,Mouse
Applications:	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:10000-1:20000
Molecular Weight:	90kDa
Purification:	Affinity purification
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.

Background:

Translation initiation is mediated by specific recognition of the cap structure by eukaryotic translation initiation factor 4F (eIF4F), which is a cap binding protein complex that consists of three subunits: eIF4A, eIF4E and eIF4G. The protein encoded by this gene shares similarity with the C-terminal region of eIF4G that contains the binding sites for eIF4A and eIF3; eIF4G, in addition, contains a binding site for eIF4E at the N-terminus. Unlike eIF4G, which supports cap-dependent and independent translation, this gene product functions as a general repressor of translation by forming translationally inactive complexes. In vitro and in vivo studies indicate that translation of this mRNA initiates exclusively at a non-AUG (GUG) codon. Alternatively spliced transcript variants encoding different isoforms of this gene have been described. [provided by RefSeq, Jul 2008],function:Appears to play a role in the switch from cap-dependent to IRES-mediated translation during mitosis, apoptosis and viral infection. Cleaved by some caspases and viral proteases.,miscellaneous:This gene has been shown to be extensively edited in the liver of APOBEC1 transgenic animal model. Its aberrant editing could contribute to the potent oncogenesis induced by overexpression of APOBEC1. The aberrant edited sequence, called NAT1, is likely to be a fundamental translational repressor.,PTM:Phosphorylation; hyperphosphorylated during mitosis.,similarity:Belongs to the eIF4G family.,similarity:Contains 1 MI domain.,similarity:Contains 1 MIF4G domain.,similarity:Contains 1 W2 domain.,subunit:Interacts with the serine/threonine protein kinases MKNK1 and MKNK2. Binds EIF4A and EIF3. Interacts with MIF4GD.,tissue specificity:Ubiquitously expressed in all adult tissues examined, with high levels in skeletal muscle and heart. Also expressed in fetal brain, lung, liver and kidney.,