

EIF6 Recombinant antibody

Catalog Number: 82693-1-RR

Basic Information

Catalog Number:

82693-1-RR

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0324

GenBank Accession Number:

BC001119

GeneID (NCBI):

3692

UNIPROT ID:

P56537

Full Name:

eukaryotic translation initiation factor 6

Calculated MW:

27 kDa

Observed MW:

27 kDa

Purification Method:

Protein A purification

CloneNo.:

2G23

Recommended Dilutions:

WB 1:1000-1:5000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human

Positive Controls:

WB : HepG2 cells, HeLa cells, A375 cells, A549 cells, COLO 320 cells

Background Information

p27(BBP/eIF6) is an evolutionarily conserved protein that was originally identified as p27(BBP), it functions as an interactor of the cytoplasmic domain of integrin 4 and as the putative translation initiation factor eIF6. p27BBP is found in two pools: one nuclear pool enriched in the perinucleolar region, and one cytoplasmic pool. p27BBP binds to the fibronectin type III domains of integrin 4 subunit (ITGB4), an important functional component of hemidesmosomes, and help link ITGB4 to the intermediate filament cytoskeleton. In vitro and in vivo studies demonstrated that p27BBP is essential for cell viability and has a primary function in the biogenesis of the 60S ribosomal subunit. p27BBP protein is increased in rapidly cycling cells and decreased in villous cells committed to apoptotic cell death. In dysplastic colorectal adenomas and carcinomas, p27BBP displayed a large increase of its nucleolar component and was associated with the nuclear matrix. In particular, p27BBP increased progressively from adenomas to carcinomas and was related to the tumor stage.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

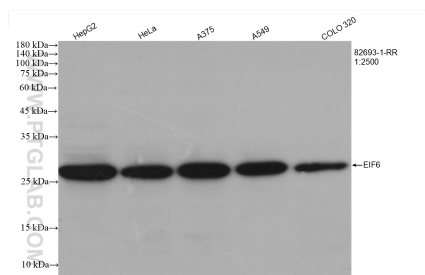
For technical support and original validation data for this product please contact:

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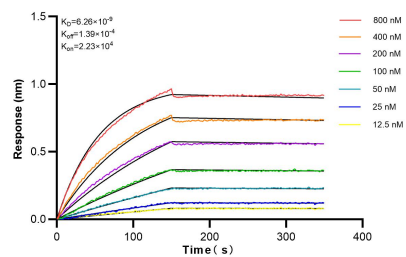
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82693-1-RR (EIF6 antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 82693-1-RR against Human EIF6 were performed. The affinity constant is 6.29 nM.