

For Research Use Only

# EIF6 Recombinant antibody, PBS Only



Catalog Number: 82693-1-PBS

## Basic Information

<b>Catalog Number:</b> 82693-1-PBS	<b>GenBank Accession Number:</b> BC001119	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3692	<b>CloneNo.:</b> 2G23
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P56537	
<b>Isotype:</b> IgG	<b>Full Name:</b> eukaryotic translation initiation factor 6	
<b>Immunogen Catalog Number:</b> AG0324	<b>Calculated MW:</b> 27 kDa	
	<b>Observed MW:</b> 27 kDa	

## Applications

**Tested Applications:**  
WB, Indirect ELISA

**Species Specificity:**  
Human

## 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

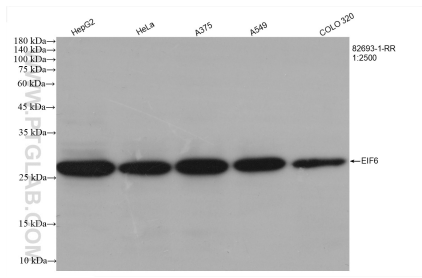
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

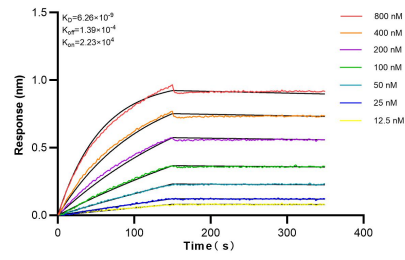
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



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. This data was developed using the same antibody clone with 82693-1-PBS in a different storage buffer formulation.



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