

For Research Use Only

EIF6 Polyclonal antibody

Catalog Number: 10291-1-AP

Featured Product

5 Publications



Basic Information

Catalog Number: 10291-1-AP	GenBank Accession Number: BC001119	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 233 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3692	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200 IF 1:50-1:500
Source: Rabbit	Full Name: eukaryotic translation initiation factor 6	
Isotype: IgG	Calculated MW: 27 kDa	
Immunogen Catalog Number: AG0324	Observed MW: 27 kDa	

Applications

Tested Applications: FC, IF, IHC, WB, ELISA	Positive Controls: WB : COLO 320 cells, A375 cells, HEK-293 cells, HeLa cells, HepG2 cells, mouse liver tissue IHC : human prostate cancer tissue, human colon tissue IF : HeLa cells,
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: human	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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.

Notable Publications

Author	Pubmed ID	Journal	Application
Meina Shi	26557144	Evid Based Complement Alternat Med	WB
Kaosheng Lv	33711283	Cell Stem Cell	WB
Henson Adrianna LAL	23792098	Biochem Biophys Res Commun	WB

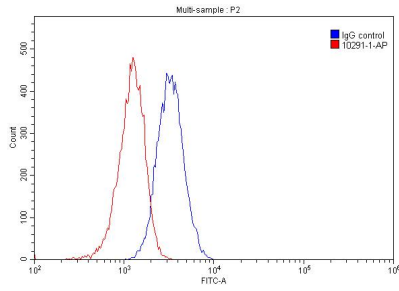
Storage

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

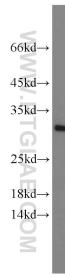
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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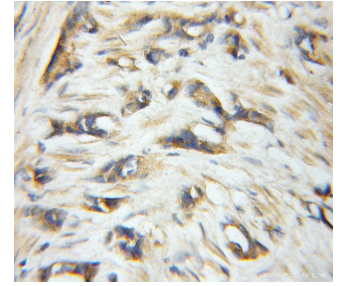
Selected Validation Data



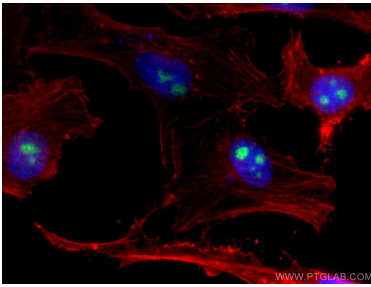
1X10⁶ HeLa cells were stained with 0.20ug EIF6 antibody (10291-1-AP, red) and control antibody (blue). Fixed with 90% MeOH.



COLO 320 cells were subjected to SDS PAGE followed by western blot with 10291-1-AP (EIF6 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 10291-1-AP (EIF6 antibody) at dilution of 1:50 (under 10x lens).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using EIF6 antibody (10291-1-AP) at dilution of 1:200 and CoralLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).