For Research Use Only

EIF6 Polyclonal antibody

Catalog Number:10291-1-AP Featured Product 8 Publications

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Basic Information

Catalog Number:
10291-1-AP

Size:
150ul , Concentration: 233 ug/ml by Bradford method using BSA as the standard;

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:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:16000
IHC 1:20-1:200
IF/ICC 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF/ICC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : A375 cells, HeLa cells, mouse liver tissue, COLO 320 cells, HepG2 cells

IHC : human prostate cancer tissue, human colon tissue

IF/ICC : HeLa 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.

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 L AL	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

*** 20ul sizes contain 0.1% BSA

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)
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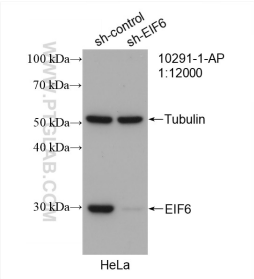
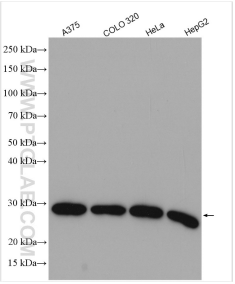
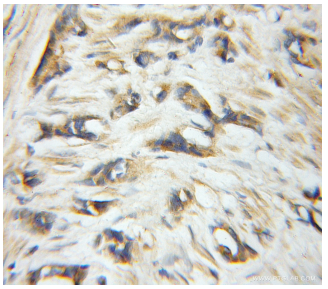
Selected Validation Data



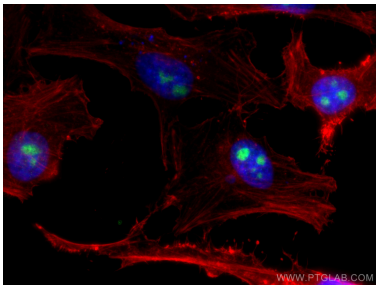
WB result of EIF6 antibody (10291-1-AP; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-EIF6 transfected HeLa cells.



Various lysates were subjected to SDS PAGE followed by western blot with 10291-1-AP (EIF6 antibody) at dilution of 1:8000 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 CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).