



Rabbit Anti-phospho-EIF4B (Ser406) antibody

SL14551R

Product Name:	phospho-EIF4B (Ser406)
Chinese Name:	磷酸化真核翻译起始因子4B抗体
Alias:	eIF4B (phospho S406); p-eIF4B (phospho S406); EIF 4B; EIF-4B; Eukaryotic initiation factor 4B; IF4B_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	69kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated Synthesised phosphopeptide derived from human EIF4B around the phosphorylation site of Ser406:HP(p-S)WR
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	eIF4B is required for the binding of mRNA to ribosomes. It functions in close association with eIF4F and eIF4A. It binds near the 5'-terminal cap of mRNA in the presence of eIF4F and ATP. It promotes the ATPase activity and the ATP-dependent RNA unwinding activity of both eIF4A and eIF4F (referenced from swissprot).

Function:

Required for the binding of mRNA to ribosomes. Functions in close association with EIF4-F and EIF4-A. Binds near the 5'-terminal cap of mRNA in presence of EIF-4F and ATP. Promotes the ATPase activity and the ATP-dependent RNA unwinding activity of both EIF4-A and EIF4-F.

Post-translational modifications:

Phosphorylated at Ser-422 by RPS6KA1 and RPS6KB1; phosphorylation enhances the affinity of EIF4B for the EIF3 complex.

Similarity:

Contains 1 RRM (RNA recognition motif) domain.

SWISS:

P23588

Gene ID:

1975

Database links:

[Entrez Gene: 1975](#) Human

[Entrez Gene: 75705](#) Mouse

[Entrez Gene: 300253](#) Rat

[Omim: 603928](#) Human

[SwissProt: P23588](#) Human

[SwissProt: Q8BGD9](#) Mouse

[Unigene: 648394](#) Human

[Unigene: 702041](#) Human

[Unigene: 290022](#) Mouse

[Unigene: 391795](#) Mouse

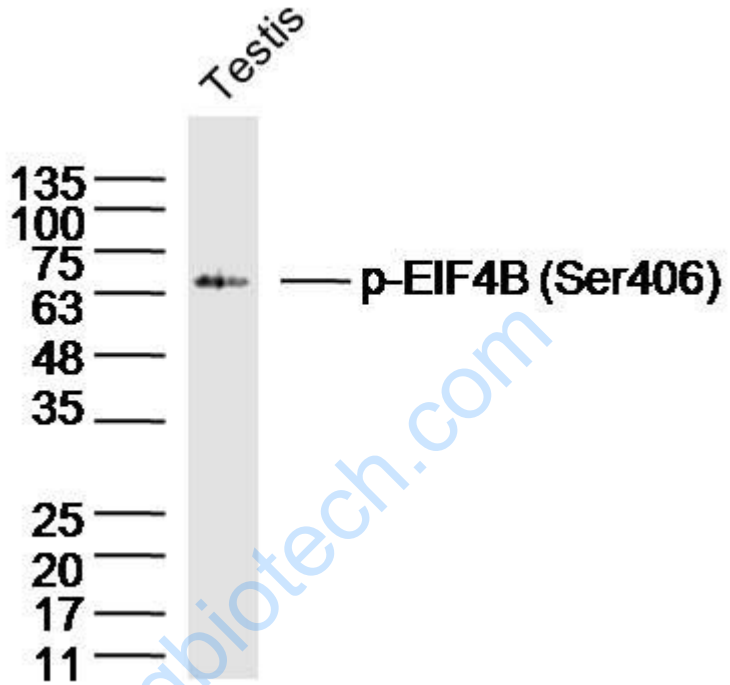
[Unigene: 95954](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Picture:



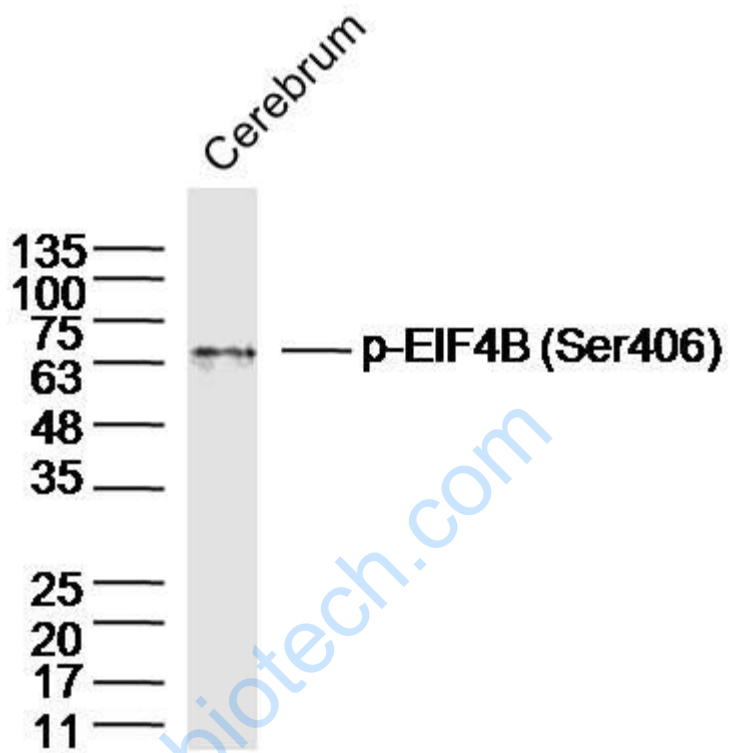
Sample: Testis (Mouse) Lysate at 40 ug

Primary: Anti-phospho-EIF4B (Ser406)(SL14551R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 69kD

Observed band size: 69kD



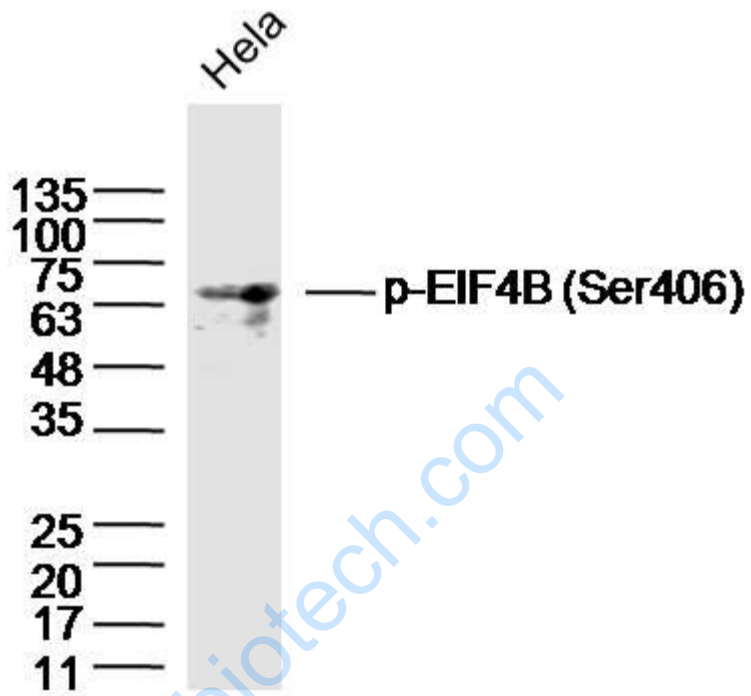
Sample: Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-phospho-EIF4B (Ser406)(SL14551R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 69kD

Observed band size: 69kD



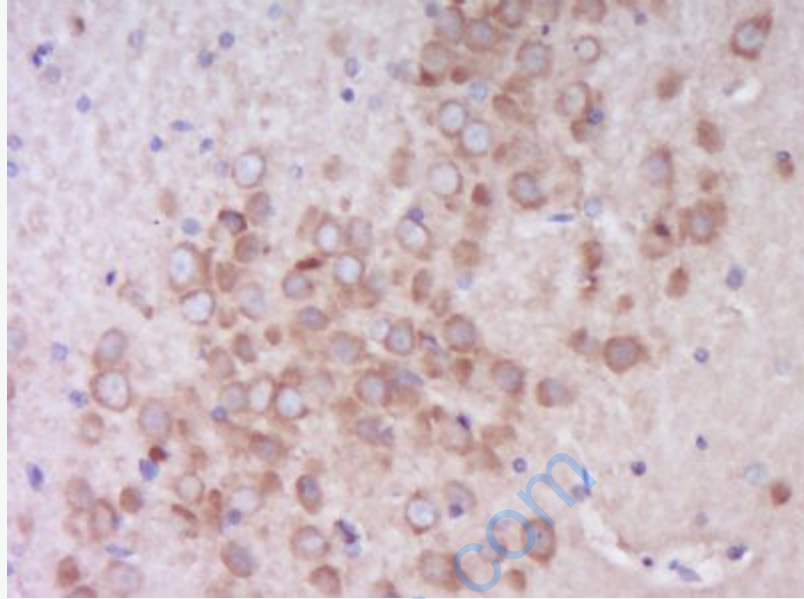
Sample: HeLa Cell (Human) Lysate at 40 ug

Primary: Anti-phospho-EIF4B (Ser406)(SL14551R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 69kD

Observed band size: 69kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (p-EIF4B (Ser406)) Polyclonal Antibody, Unconjugated (SL14551R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.