

## elf4B (phospho Ser422) Polyclonal Antibody

Cat #: ABP54968

Size: 30μl /100μl /200μl

### Product Information

	<b>Product Name:</b> elf4B (phospho Ser422) Polyclonal Antibody		
	<b>Applications:</b> WB, IHC-P, IF, ELISA		<b>Isotype:</b> Rabbit IgG
	<b>Reactivity:</b> Human, Mouse		
<b>REF</b>	<b>Catalog Number:</b> ABP54968	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Formulation:</b> Liquid		<b>Concentration:</b> 1 mg/ml
	<b>Storage:</b> Store at -20°C. Avoid repeated freeze / thaw cycles.		<b>Note:</b> Contain sodium azide.

**Background:** Eukaryotic initiation factor 4B (elf4B) is thought to assist the elf4F complex in translation initiation. In plants, elf4B is known to interact with the poly-(A) binding protein, increasing its poly-(A) binding activity. Heat shock and serum starvation cause dephosphorylation of elf4B at multiple sites with kinetics similar to those of the corresponding inhibition of translation, while phosphorylation of elf4B following insulin treatment correlates well with an observed increase in translation. Multiple kinases, including p70 S6 kinase, can phosphorylate elf4B in vitro, and at least one serum-inducible elf4B phosphorylation site is sensitive to rapamycin and LY294002. Recently, Ser406 was identified as a novel phosphorylation site regulated by mitogens, and the phosphorylation of this site is dependent on MEK and mTOR activity. This phosphorylation is shown to be essential for the translational activity of elf4B.

**Application Notes:** Optimal working dilutions should be determined experimentally by the investigator. Suggested starting dilutions are as follows: WB (1:500-1:2000), IHC-P (1:100-1:300), IF (1:200-1:1000), ELISA (1:40000). Not yet tested in other applications.

**Storage Buffer:** PBS containing 50% Glycerol, 0.5% BSA and 0.02% Sodium Azide.

**Storage Instructions:** Stable for one year at -20°C from date of shipment. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Aliquot to avoid repeated freezing and thawing.

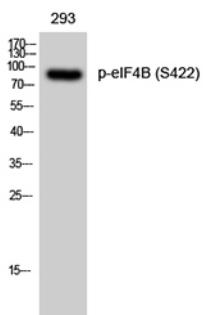


Fig. Western Blot analysis of 293 cells using Phospho-eIF4B (S422) Polyclonal Antibody diluted at 1:2000.

**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.