

## Phospho-eIF2alpha-S51 Antibody

CABP0745

### Description

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This Phospho-eIF2alpha-S51 Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

### Product Information

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<b>SKU:</b>	CABP0745
<b>Contents:</b>	20 µL, 100 µL Bradford Reagent: 1 vial (2ml)
<b>Category:</b>	Polyclonal Antibody
<b>Synonyms:</b>	EIF2, EIF-2, EIF2A, EIF-2A, EIF-2alpha, Phospho-eIF2α-S51
<b>Clone:</b>	-
<b>Applications:</b>	<span>WB</span> <span>IP</span> <span>ELISA</span>
<b>Conjugation:</b>	Unconjugated
<b>Reactivity:</b>	Human, Mouse, Rat

### Antibody Data

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<b>Gene ID:</b>	1965
<b>Uniprot:</b>	AB_2771066
<b>Host Species:</b>	Rabbit
<b>Purification:</b>	Affinity purification
<b>Observed MW:</b>	38kDa
<b>Calculated MW:</b>	36kDa

## Preparation & Storage

**Storage:** Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

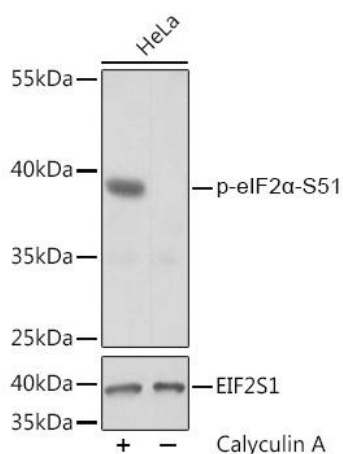
Store Bradford Reagent at Room Temperature for 1 Year.

**Positive Sample:** HeLa treated with Calyculin A

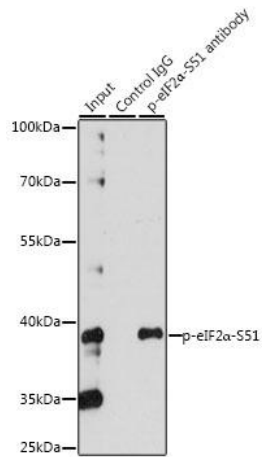
<b>Recommended Dilutions:</b>	<b>WB</b>	1:1000 - 1:5000
	<b>IP</b>	0.5µg-4µg antibody for 200µg-400µg extracts of whole cells
	<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

**Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol

## Validation Data



Western blot analysis of lysates from HeLa cells, using Phospho-eIF2α- Rabbit pAb (CAB0764). HeLa cells were treated with Calyculin A (100nM) for 30 minutes after serum-starvation overnight. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% BSA. Detection: ECL Basic Kit (AbGn00020). Exposure time: 1s.



Immunoprecipitation analysis of 200 µg extracts of HeLa cells, using 3 µg Phospho-eIF2α- pAb (CABP0745). Western blot was performed from the immunoprecipitate using Phospho-eIF2α- pAb (CABP0745) at a dilution of 1:1000. HeLa cells were treated with Calyculin A (100 nM) at 37°C for 30 minutes after serum-starvation overnight.