

## eIF2 $\alpha$ (phospho-S51) polyclonal antibody

Catalog: BS4787

Host: Rabbit

Reactivity: Human, Mouse, Rat

### Background:

eIF2 $\alpha$ , also known as EIF2S1 or EIF2, is a 315 amino acid subunit of the eukaryotic initiation complex that functions to bind tRNA to the 40S ribosomal subunit (in a GTP-dependent manner), thereby initiating translation. In addition, the phosphorylation state of eIF2 $\alpha$  controls the rate of tRNA translation. When eIF2 $\alpha$  is not phosphorylated, translation occurs at a normal rate. However, upon phosphorylation by one of several kinases, eIF2 $\alpha$  is stabilized, thus preventing the GDP/GTP exchange reaction and slowing translation.

### Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

### Molecular Weight:

~ 38 kDa

### Swiss-Prot:

P05198

### Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

### Applications:

WB: 1:500~1:1000

IHC: 1:50~1:200

### Storage&Stability:

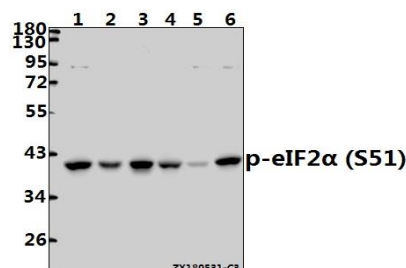
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

p-eIF2 $\alpha$  (S51) polyclonal antibody detects endogenous levels of eIF2 $\alpha$  protein only when phosphorylated at

Ser51.

### DATA:



Western blot (WB) analysis of p-eIF2 $\alpha$  (S51) pAb at 1:500 dilution

Lane1:Hela whole cell lysate(40ug)

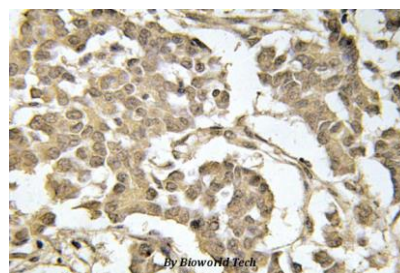
Lane2:MCF-7 whole cell lysate(40ug)

Lane3:The Uterus tissue lysate of Rat(40ug)

Lane4:The Lung tissue lysate of Mouse(40ug)

Lane5:A2780 whole cell lysate(40ug)

Lane6:H1792 whole cell lysate(40ug)



Immunohistochemistry (IHC) analyzes of p-eIF2 $\alpha$  (S51) pAb in paraffin-embedded human breast carcinoma tissue.

### Note:

For research use only, not for use in diagnostic procedure.

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