

bsm-52306R**[Primary Antibody]****phospho-EIF2S1 (Ser51) Recombinant Rabbit mAb****BioSS**
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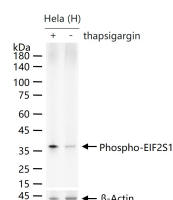
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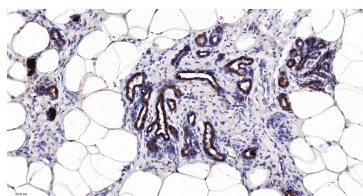
400-901-9800

— DATASHEET —**Host:** Rabbit**Isotype:** IgG**Clonality:** Recombinant**CloneNo.:** 8B5**GeneID:** 1965**SWISS:** P05198**Target:** EIF2S1 (Ser51)**Immunogen:** A synthesized peptide derived from human eIF2A around the phosphorylation site of S51: EL-pS-RR.**Purification:** affinity purified by Protein A**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

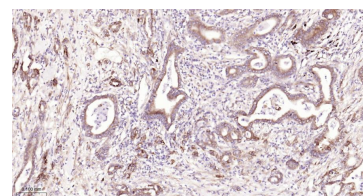
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: eIF2 alpha is a 36 kDa protein which is ubiquitously expressed in many cell types. The eIF2 protein, which is composed of three subunits (alpha, beta and gamma), is one of the key molecules in the initiation of translation. In mammalian cells, eIF2 alpha is phosphorylated at serine 51 (human EIF2 alpha, the equivalent residue in mouse is serine 52) by at least two kinases: the haem-controlled repressor (HCR) and the interferon inducible double stranded RNA-dependent protein kinase (PKR). Phosphorylation of eIF2 alpha blocks the GDP-GTP exchange activity of eIF2 beta, resulting in the suppression of protein synthesis. The phosphorylation of eIF2 alpha is an important regulatory process in protein synthesis.**Applications:** **WB** (1:500-2000)**IHC-P** (1:100-500)**IHC-F** (1:100-500)**IF** (1:100-500)**Flow-Cyt** (1:100-200)**ICC/IF** (1:100-200)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 36 kDa**Observed MW.:** 37 kDa**Subcellular Location:** Cytoplasm**— VALIDATION IMAGES —**

HeLa (H) cells were treated with or without thapsigargin (300 nM) for 30 min, 25 µg total protein per lane of cell lysates (see on figure) probed with Phospho-EIF2S1 (Ser51) monoclonal antibody, unconjugated (bsm-52306R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded Rat Breast; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with phospho-EIF2S1 (Ser51) Monoclonal Antibody, Unconjugated (bsm-52306R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Pancreatic Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with Phospho-EIF2S1 (Ser51) Monoclonal Antibody, Unconjugated (bsm-52306R) at 1:200 overnight at 4°C, followed by conjugation to the bs-0295G-HRP and DAB (C-0010) staining.

— SELECTED CITATIONS —

- **[IF=8.3]** Jiawei Ling. et al. Dendrobium Polysaccharides Ameliorate Alcohol-Induced Liver Injury by Inhibiting the Pathogenic ER Stress-Sphingolipid Axis. PHYTOMEDICINE. 2026 Jan;;157863 WB ;Mouse. 41581446
- **[IF=3]** Yupeng Shi. et al. NOTCH1 and UPR signaling in embryonic heart development under maternal high-fat diet influence. FRONT MED-LAUSANNE. 2025 Dec;10:1620495 WB ;Mouse. 41424470