

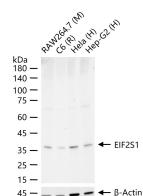
**bsm-51644M****[ Primary Antibody ]****EIF2S1 Mouse mAb****Bioss**  
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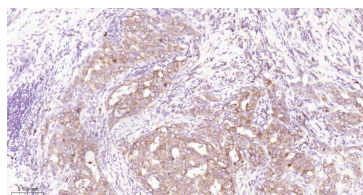
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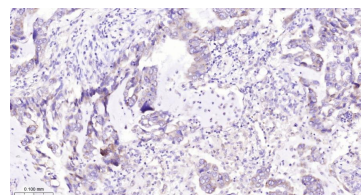
400-901-9800

**— DATASHEET —****Host:** Mouse**Isotype:** IgG2b,k**Clonality:** Monoclonal**CloneNo.:** B5Y8**GeneID:** 1965**SWISS:** P05198**Target:** EIF2S1**Purification:** affinity purified by Protein G**Concentration:** 1mg/ml**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300.  
Store at 2-8°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** (1:200-1000)  
**IHC-F** (1:200-1000)  
**IF** (1:200-1000)**Reactivity:** Human, Mouse, Rat**Predicted MW.:** 36 kDa**Subcellular Location:** Cytoplasm**— VALIDATION IMAGES —**

25 ug total protein per lane of various lysates (see on figure) probed with EIF2S1 monoclonal antibody, unconjugated (bsm-51644M) 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 Human Breast Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with EIF2S1 Monoclonal Antibody, Unconjugated (bsm-51644M) at 1:1000 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.



Paraformaldehyde-fixed, paraffin embedded Human Lung Cancer; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with EIF2S1 Monoclonal Antibody, Unconjugated (bsm-51644M) at 1:1000 overnight at 4°C, followed by conjugation to the bs-40296G-HRP and DAB (C-0010) staining.