bsm-52306R

— DATASHEET —

[Primary Antibody]

Phospho-EIF2S1 (Ser51) Recombinant Rabbit mAb



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Host: Rabbit	Isotype: IgG	4
Clonality: Recombinant	CloneNo.: 8B5	
GenelD: 1965	SWISS: P05198	
Target: Phospho-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 haemcontrolled 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.

- 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 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.



Paraformaldehyde-fixed, paraffin embedded Human Breast 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.

Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Flow-Cyt (1:50-100) ICC/IF (1:50-200)

Reactivity: Human, Mouse, Rat

Predicted MW.: ^{36 kDa}

Subcellular Location: Cytoplasm