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## phospho-EIF2S1 (Ser49) Antibody Blocking Peptide

Catalog Number:	bs-14541P
Activity:	Not tested
Purification:	HPLC
Storage:	Shipped at 4°C. Stored at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	elF2 alpha is a 36 kDa protein which is ubiquitously expressed in many cell types. The elF2
	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.