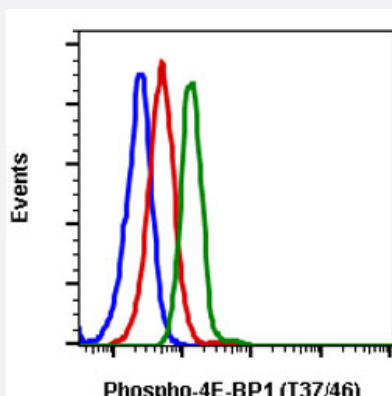


# EIF4EBP1 (phospho T37/T46) monoclonal antibody, clone A5 (SureLight 488)

Catalog # MAB18774      Size 10 Reactions

## Applications



### Flow Cytometry

Flow cytometric analysis of Jurkat cells with EIF4EBP1 (phospho T37/T46) monoclonal antibody, clone A5 (SureLight 488) (Cat # MAB18774). Unstained LY294002 treated cells as negative control (blue) or stained and treated with LY294002 (red) or with TPA (green).

## Specification

<b>Product Description</b>	Rabbit monoclonal antibody raised against synthetic phosphopeptide of human EIF4EBP1.
<b>Immunogen</b>	A synthetic phosphopeptide corresponding to residues surrounding T37/T46 of human EIF4EBP1.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Form</b>	Liquid
<b>Conjugation</b>	SureLight 488
<b>Purification</b>	Protein A/G purification
<b>Isotype</b>	IgG1, kappa
<b>Recommend Usage</b>	Flow Cytometry (5 uL/10 <sup>6</sup> cells) The optimal working dilution should be determined by the end user.

<b>Storage Buffer</b>	In PBS, pH 7.4 (0.2% BSA, 0.09% sodium azide).
<b>Storage Instruction</b>	Store at 4°C.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Flow Cytometry

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## Gene Info — EIF4EBP1

<b>Entrez GeneID</b>	<a href="#">1978</a>
<b>Gene Name</b>	EIF4EBP1
<b>Gene Alias</b>	4E-BP1, 4EBP1, BP-1, MGC4316, PHAS-I
<b>Gene Description</b>	eukaryotic translation initiation factor 4E binding protein 1
<b>Omim ID</b>	<a href="#">602223</a>
<b>Gene Ontology</b>	<a href="#">Hyperlink</a>
<b>Gene Summary</b>	This gene encodes one member of a family of translation repressor proteins. The protein directly interacts with eukaryotic translation initiation factor 4E (eIF4E), which is a limiting component of the multisubunit complex that recruits 40S ribosomal subunits to the 5' end of mRNAs. Interaction of this protein with eIF4E inhibits complex assembly and represses translation. This protein is phosphorylated in response to various signals including UV irradiation and insulin signaling, resulting in its dissociation from eIF4E and activation of mRNA translation. [provided by RefSeq]
<b>Other Designations</b>	eIF4E-binding protein 1 phosphorylated heat- and acid-stable protein regulated by insulin 1

## Pathway

- [Acute myeloid leukemia](#)
- [ErbB signaling pathway](#)

- [Insulin signaling pathway](#)
- [mTOR signaling pathway](#)

## Disease

- [Alzheimer disease](#)
- [Genetic Predisposition to Disease](#)
- [Multiple System Atrophy](#)
- [Obesity](#)