

**Phospho-4E-BP1 (Ser65)**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO2504a**

## Specification

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### Phospho-4E-BP1 (Ser65) - Product Information

Application	E, IHC
Primary Accession	<a href="#">Q13541</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	12.6kDa KDa

#### Immunogen

Synthesized peptide of human Phospho-4E-BP1 (Ser65).

#### Formulation

Purified antibody in PBS with 0.05% sodium azide

### Phospho-4E-BP1 (Ser65) - Additional Information

**Gene ID** 1978

#### Other Names

EIF4EBP1; BP-1; 4EBP1; 4E-BP1; PHAS-I

#### Dilution

E~~ 1/10000  
IHC~~ 1/200 - 1/1000

#### Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

Phospho-4E-BP1 (Ser65) is for research use only and not for use in diagnostic or therapeutic procedures.

### Phospho-4E-BP1 (Ser65) - Protein Information

**Name** EIF4EBP1

#### Function

Repressor of translation initiation that regulates EIF4E activity by preventing its assembly into the eIF4F complex: hypophosphorylated form competes with EIF4G1/EIF4G3 and strongly binds to EIF4E, leading to repress translation. In contrast, hyperphosphorylated form dissociates from EIF4E, allowing interaction between EIF4G1/EIF4G3 and EIF4E, leading to initiation of translation.

Mediates the regulation of protein translation by hormones, growth factors and other stimuli that signal through the MAP kinase and mTORC1 pathways.

**Cellular Location**

Cytoplasm. Nucleus. Note=Localization to the nucleus is unaffected by phosphorylation status. {ECO:0000250|UniProtKB:Q60876}

**Phospho-4E-BP1 (Ser65) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**Phospho-4E-BP1 (Ser65) - Images**

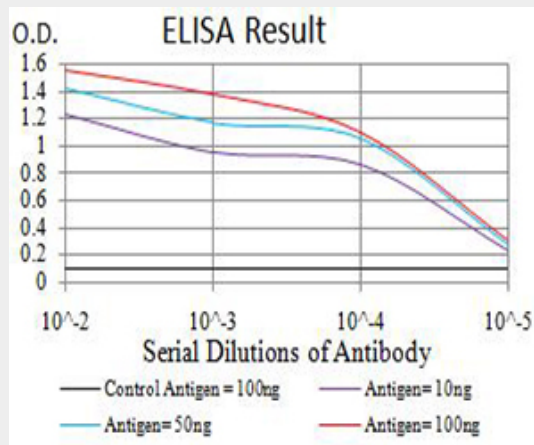


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

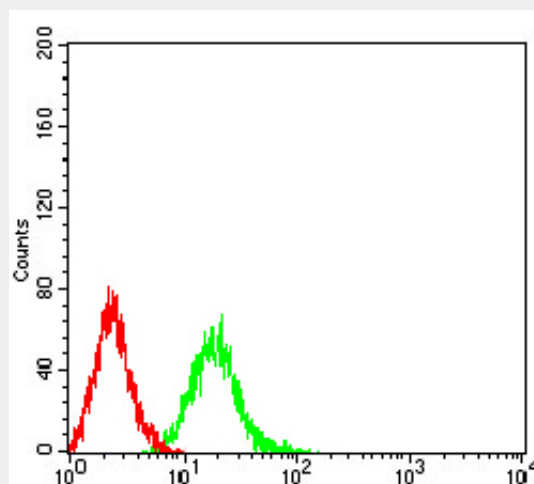


Figure 2:Flow cytometric analysis of Jurkat cells using Phospho-4E-BP1 (Ser65) mouse mAb (green) and negative control (red).

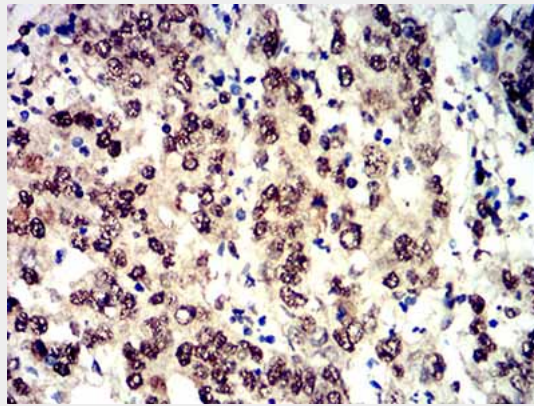


Figure 3:Immunohistochemical analysis of paraffin-embedded stomach cancer tissues using Phospho-4E-BP1 (Ser65) mouse mAb with DAB staining.

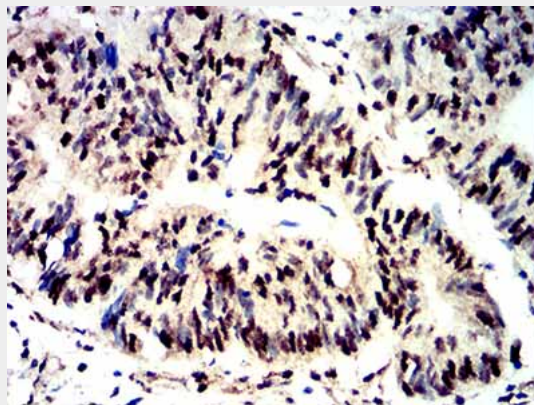


Figure 4:Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using Phospho-4E-BP1 (Ser65) mouse mAb with DAB staining.

#### **Phospho-4E-BP1 (Ser65) - References**

- 1.Sci Signal. 2015 Nov 17;8(403):ra116.2.Oncotarget. 2015 Sep 15;6(27):24092-104.