

Datasheet for ABIN878076

## **anti-eIF4EBP1 antibody (pThr36) (AbBy Fluor® 350)**



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### Overview

|                      |                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                         |
| Target:              | eIF4EBP1 (EIF4EBP1)                                                                                                            |
| Binding Specificity: | pThr36                                                                                                                         |
| Reactivity:          | Human                                                                                                                          |
| Host:                | Rabbit                                                                                                                         |
| Clonality:           | Polyclonal                                                                                                                     |
| Conjugate:           | This eIF4EBP1 antibody is conjugated to AbBy Fluor® 350                                                                        |
| Application:         | Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

### Product Details

|                       |                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic phosphopeptide derived from human eIF4EBP1 around the phosphorylation site of Thr36 |
| Isotype:              | IgG                                                                                                          |
| Cross-Reactivity:     | Human                                                                                                        |
| Predicted Reactivity: | Mouse,Rat                                                                                                    |
| Purification:         | Purified by Protein A.                                                                                       |

### Target Details

|         |                     |
|---------|---------------------|
| Target: | eIF4EBP1 (EIF4EBP1) |
|---------|---------------------|

## Target Details

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| Alternative Name: | e4EBP1 ( <a href="#">EIF4EBP1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Background:       | <p>Synonyms: e4EBP1 phospho T36, e4EBP1 phospho Thr36, p-e4EBP1 Thr36, e4EBP1, Eukaryotic translation initiation factor 4E binding protein 1, Eukaryotic translation initiation factor 4E-binding protein 1, 4E BP1, 4EBP1, BP 1, BP1, e4E binding protein 1, e4E-binding protein 1, Eukaryotic translation initiation factor 4E binding protein 1, MGC4316, PHAS I, PHASI, PHAS-I, PHAS, 4E-BP1, Phosphorylated heat- and acid-stable protein regulated by insulin 1, Phosphorylated heat and acid stable protein regulated by insulin 1, 4EBP1_HUMAN.</p> <p>Background: 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, Jul 2008].</p> |
| Gene ID:          | 1978                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Pathways:         | <a href="#">MAPK Signaling</a> , <a href="#">PI3K-Akt Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">AMPK Signaling</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">BCR Signaling</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Application Details

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| Application Notes: | IF(IHC-P) 1:50-200<br>IF(IHC-F) 1:50-200<br>IF(ICC) 1:50-200 |
| Restrictions:      | For Research Use only                                        |

## Handling

|                    |                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                             |
| Concentration:     | 1 µg/µL                                                                                                            |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.        |
| Preservative:      | ProClin                                                                                                            |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |

Handling

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|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| Storage:         | -20 °C                                                                            |
| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |
| Expiry Date:     | 12 months                                                                         |