

Datasheet for ABIN5007118

**anti-MTOR antibody (pThr2446) (AbBy Fluor® 680)**[Go to Product page](#)

## Overview

|                      |                                                                                                                                   |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                                                            |
| Target:              | MTOR (mTOR)                                                                                                                       |
| Binding Specificity: | pThr2446                                                                                                                          |
| Reactivity:          | Human, Mouse                                                                                                                      |
| Host:                | Rabbit                                                                                                                            |
| Clonality:           | Polyclonal                                                                                                                        |
| Conjugate:           | This MTOR antibody is conjugated to AbBy Fluor® 680                                                                               |
| Application:         | Flow Cytometry (FACS), Immunofluorescence (Paraffin-embedded Sections) (IF (p)),<br>Immunofluorescence (Cultured Cells) (IF (cc)) |

## Product Details

|                       |                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic phosphopeptide derived from human mTOR around the phosphorylation site of Thr2446 |
| Isotype:              | IgG                                                                                                        |
| Cross-Reactivity:     | Human, Mouse                                                                                               |
| Predicted Reactivity: | Rat,Dog,Cow,Sheep,Horse,Rabbit                                                                             |
| Purification:         | Purified by Protein A.                                                                                     |

## Target Details

|         |             |
|---------|-------------|
| Target: | MTOR (mTOR) |
|---------|-------------|

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| Alternative Name: | mTOR ( <a href="#">mTOR Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Background:       | <p>Synonyms: dJ576K7.1 FK506 binding protein 12 rapamycin associated protein 1, FK506 binding protein 12 rapamycin associated protein 1, FK506 binding protein 12 rapamycin associated protein 2, FK506 binding protein 12 rapamycin complex associated protein 1, FK506 binding protein12-rapamycin associated protein 1, FK506 binding protein12-rapamycin associated protein 2, FK506-binding protein 12-rapamycin complex-associated protein 1, FKBP rapamycin associated protein, FKBP12 rapamycin complex associated protein, FKBP12-rapamycin complex-associated protein, FLJ44809, FRAP, FRAP1, FRAP2, Mammalian target of rapamycin, Mechanistic target of rapamycin, mTOR, MTOR_HUMAN, OTTHUMP00000001983, RAFT1, Rapamycin and FKBP12 target 1, Rapamycin associated protein FRAP2, Rapamycin target protein 1, Rapamycin target protein, RAPT1, Serine/threonine-protein kinase mTOR.</p> <p>Background: mTOR is one of a family of proteins involved in cell cycle progression, DNA recombination, and DNA damage detection. In rat, it is a 289- kDa protein (symbolized RAFT1) with significant homology to the Saccharomyces cerevisiae protein TOR1 and has been shown to associate with the immunophilin FKBP12 in a rapamycin dependent fashion. The FKBP12-rapamycin complex is known to inhibit progression through the G1 cell cycle stage by interfering with mitogenic signaling pathways involved in G1 progression in several cell types, as well as in yeast. The binding of FRAP to FKBP12-rapamycin correlated with the ability of these ligands to inhibit cell cycle progression.</p> |
| Gene ID:          | 1735                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| UniProt:          | <a href="#">P42345</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Pathways:         | <a href="#">PI3K-Akt Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">AMPK Signaling</a> , <a href="#">Interferon-gamma Pathway</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Regulation of Actin Filament Polymerization</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Autophagy</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">BCR Signaling</a> , <a href="#">Warburg Effect</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Application Details

|                    |                                                                              |
|--------------------|------------------------------------------------------------------------------|
| Application Notes: | FCM 1:20-100<br>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. |
| Storage:           | -20 °C                                                                                                             |
| Storage Comment:   | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.                                  |
| Expiry Date:       | 12 months                                                                                                          |