

## Anti-mTOR (Phospho-T2446) Antibody

| Catalog #                | Source                                                                                                                                                                                                                                                          | Reactivity | Applications |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|
| CPA7050                  | Rabbit                                                                                                                                                                                                                                                          | H, M, R, S | WB, IH       |
| <b>Description</b>       | Rabbit polyclonal antibody to mTOR (Phospho-T2446)                                                                                                                                                                                                              |            |              |
| <b>Immunogen</b>         | KLH-conjugated synthetic phosphopeptide corresponding to residues surrounding T2446 of human mTOR protein. The exact sequence is proprietary.                                                                                                                   |            |              |
| <b>Purification</b>      | The antibody was purified by immunogen affinity chromatography.                                                                                                                                                                                                 |            |              |
| <b>Specificity</b>       | Recognizes endogenous levels of mTOR protein only when phosphorylated at T2446.                                                                                                                                                                                 |            |              |
| <b>Clonality</b>         | Polyclonal                                                                                                                                                                                                                                                      |            |              |
| <b>Conjugation</b>       |                                                                                                                                                                                                                                                                 |            |              |
| <b>Form</b>              | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                                                                                                                                                       |            |              |
| <b>Dilution</b>          | WB (1/500 - 1/1000), IH (1/50 - 1/200)                                                                                                                                                                                                                          |            |              |
| <b>Gene Symbol</b>       | MTOR                                                                                                                                                                                                                                                            |            |              |
| <b>Alternative Names</b> | FRAP; FRAP1; FRAP2; RAFT1; RAPT1; Serine/threonine-protein kinase mTOR; FK506-binding protein 12-rapamycin complex-associated protein 1; FKBP12-rapamycin complex-associated protein; Mammalian target of rapamycin; mTOR; Mechanistic target of rapamycin; Rap |            |              |
| <b>Entrez Gene</b>       | 2475 (Human); 56717 (Mouse); 56718 (Rat)                                                                                                                                                                                                                        |            |              |
| <b>SwissProt</b>         | P42345 (Human); Q9JLN9 (Mouse); P42346 (Rat)                                                                                                                                                                                                                    |            |              |
| <b>Storage/Stability</b> | Shipped at 4°C. Upon delivery aliquot and store at -20°C for one year. Avoid freeze/thaw cycles.                                                                                                                                                                |            |              |

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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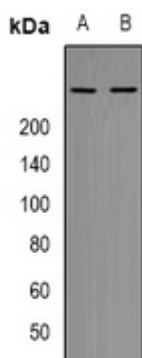
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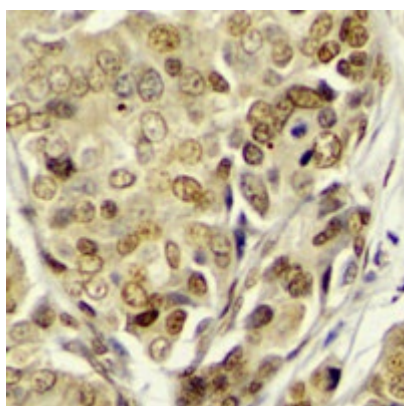
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## Product Data Sheet



Western blot analysis of mTOR (Phospho-T2446) expression in HeLa (A), NIH3T3 (B) whole cell lysates. (Predicted band size: 288 kD; Observed band size: 289 kD)



Immunohistochemical analysis of mTOR (Phospho-T2446) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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