

## Catalog #: 4607

### Aliases

MTOR; Mechanistic Target Of Rapamycin Kinase; RAFT1; RAPT1; Rapamycin And FKBP12 Target 1; Mammalian Target Of Rapamycin; FRAP1; FRAP2; FRAP; FK506-Binding Protein 12-Rapamycin Complex-Associated Protein 1; Mechanistic Target Of Rapamycin (Serine/Threonine Kinase); FK506 Binding Protein 12-Rapamycin Associated Protein 2; FKBP12-Rapamycin Complex-Associated Protein 1; Serine/Threonine-Protein Kinase MTOR; Rapamycin Associated Protein FRAP2; FKBP-Rapamycin Associated Protein; Mechanistic Target Of Rapamycin; Rapamycin Target Protein 1; FLJ44809 2 5  
DJ576K7.1 (FK506 Binding Protein 12-Rapamycin Associated Protein 1); FK506 Binding Protein 12-Rapamycin Associated Protein 1; FKBP12-Rapamycin Complex-Associated Protein; Rapamycin Target Protein; EC 2.7.11.1; MTOR; SKS

### Background

Gene Name: MTOR

NCBI Gene Entry: [2475](#)

UniProt Entry: [P42345](#)

### Application Information

Molecular Weight: Predicted, 289 kDa; observed, 250 kDa

Clonality: Rabbit monoclonal antibody

Clone ID: 24GB12050

Species Reactivity: Human, mouse, rat

Applications Tested: Western blotting (WB), immunocytochemistry (IC)

### Immunogen

A synthesized peptide derived from human mTOR

### Isotype

Rabbit IgG

### Storage Buffer

Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.

### Storage

Store at -20 °C for one year.

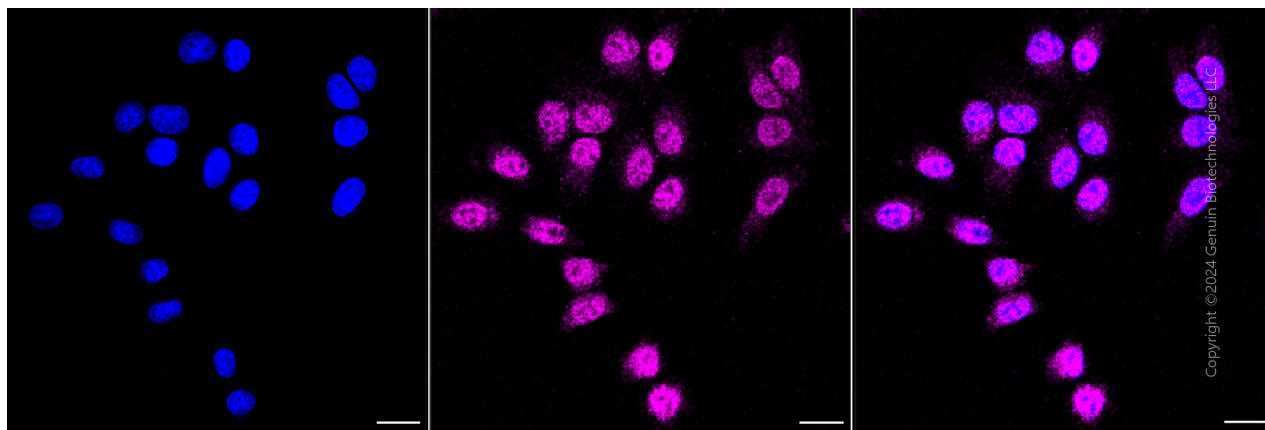
## Recommended Dilutions

Western Blotting (WB): 1:500-1:2,500

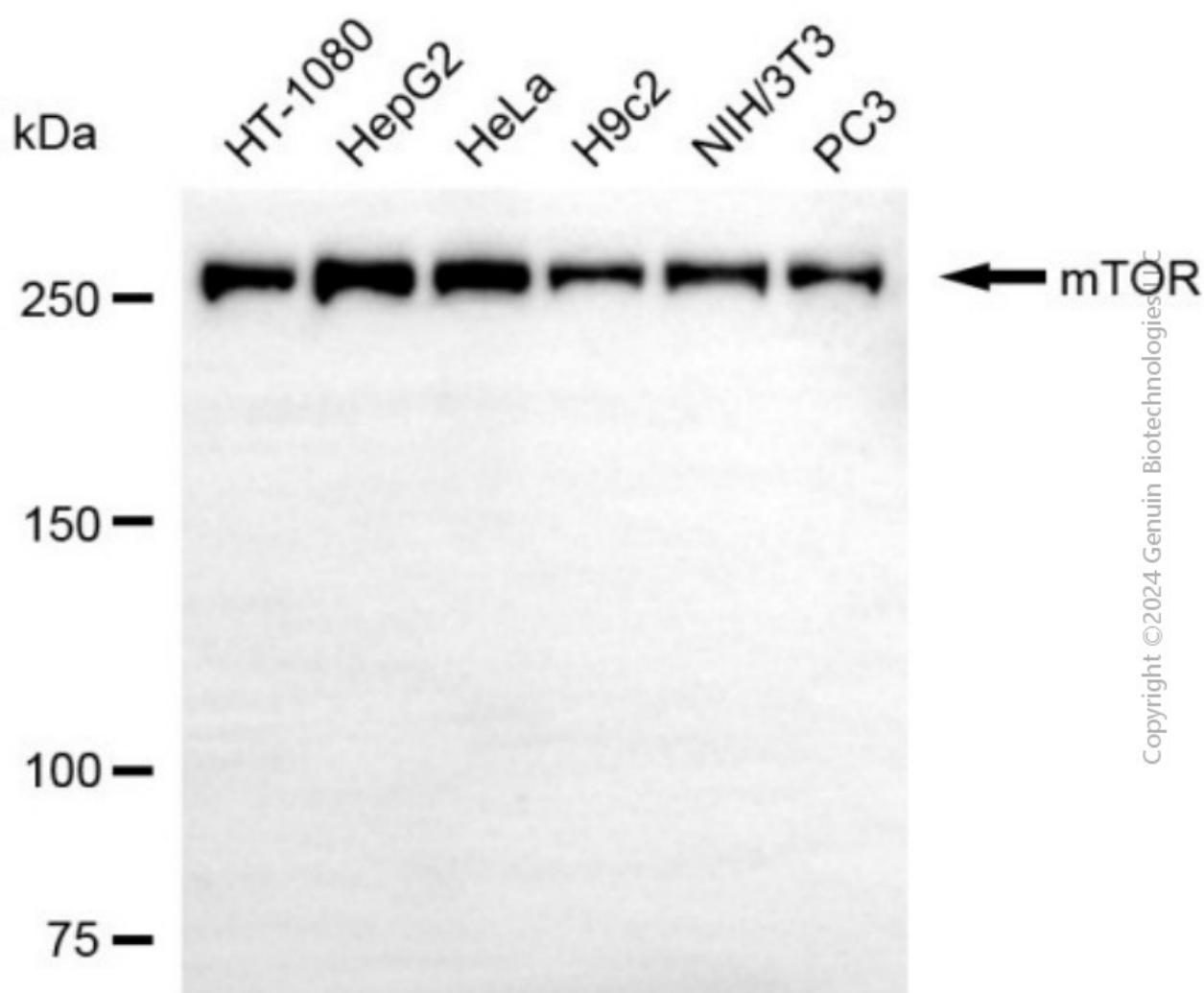
Immunocytochemistry (IC): 1:100-1:1,000

**Note:** This product is for research use only.

## Validation Data



Immunocytochemical staining of HepG2 cells with anti-mTOR antibody (Cat#4607, 1:1,000). Nuclei were stained blue with DAPI; mTOR was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20  $\mu$ m.



Western blotting analysis using anti-mTOR antibody (Cat#4607). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-mTOR antibody (Cat#4607, 1:2,500) and HRP-conjugated goat anti-rabbit secondary antibody (Cat#201, 1:20,000) respectively. Image was developed using FeQ™ ECL Substrate Kit (Cat#226).