

# KD-Validated Anti-Mechanistic Target Of Rapamycin Kinase

Rabbit monoclonal antibody

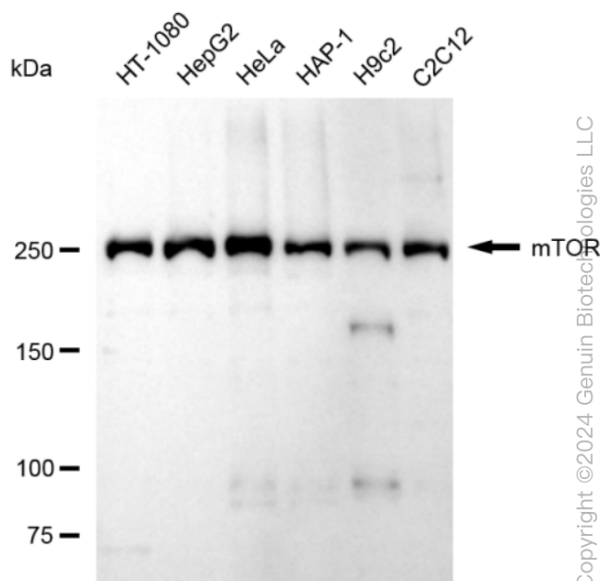
ABG1589

## Product Overview

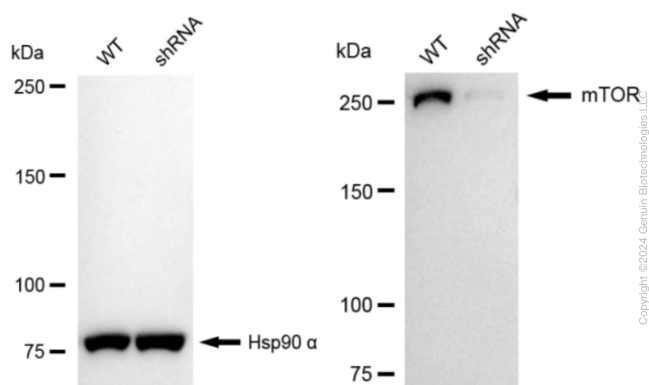
|                             |                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Name</b>                 | KD-Validated Anti-Mechanistic Target Of Rapamycin Kinase Rabbit Monoclonal Antibody                   |
| <b>Accession(Primary)</b>   | P42345                                                                                                |
| <b>Host Species</b>         | Rabbit                                                                                                |
| <b>Clonality</b>            | Monoclonal                                                                                            |
| <b>Isotype</b>              | Rabbit IgG                                                                                            |
| <b>Immunogen</b>            | A synthesized peptide derived from human mTOR                                                         |
| <b>Species Reactivity</b>   | Human, Mouse, Rat                                                                                     |
| <b>Calculated MW</b>        | Predicted, 289 kDa , observed , 255 kDa                                                               |
| <b>Storage Buffer</b>       | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.                             |
| <b>Recommended Dilution</b> | Western Blotting (WB):1:1,000-1:5,000 Flow Cytometry (FCM): 1:2,000 Immunocytochemistry (IC): 1:1,000 |

## Target information (P42345)

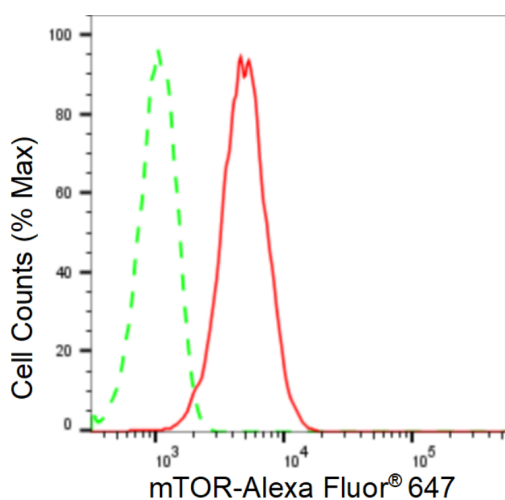
|                          |                                                                                                                                                                                                                                                                |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | MTOR                                                                                                                                                                                                                                                           |
| <b>About Gene Symbol</b> | MTOR (Mechanistic Target Of Rapamycin Kinase) is a serine/threonine protein kinase involved in mTOR/PI3K/Akt signaling. It is an important research target in cancer, cell signaling, and therapeutic target research and is widely studied to elucidate cellu |



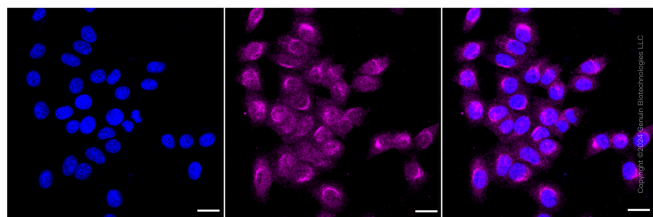
Western blotting analysis using anti-mTOR antibody (Cat#ABG1589). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-mTOR antibody (Cat#ABG1589, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-mTOR antibody (Cat#ABG1589). mTOR expression in wild type (WT) and mTOR shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-mTOR antibody (Cat#ABG1589, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of mTOR expression in HepG2 cells using mTOR antibody (Cat#ABG1589, 1:2,000). Green, isotype control; red, mTOR.



Immunocytochemical staining of HepG2 cells with anti-mTOR antibody (Cat#ABG1589, 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: High. Scale bar: 20  $\mu$ m.