9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

# KD-Validated Anti-MTOR Rabbit Monoclonal Antibody

*Rabbit monoclonal antibody*

ABG1793

## Product Overview

| | |
|---|---|
| **Name** | KD-Validated Anti-MTOR Rabbit Monoclonal Antibody |
| **Accession(Primary)** | P42345 |
| **Host Species** | Rabbit |
| **Clonality** | Monoclonal |
| **Isotype** | Rabbit IgG |
| **Immunogen** | A synthesized peptide derived from human mTOR |
| **Species Reactivity** | Human, Mouse, Rat |
| **Calculated MW** | Predicted, 289 kDa, observed, 250 kDa |
| **Storage Buffer** | Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide. |
| **Recommended Dilution** | Western Blotting (WB): 1:1,000-1:5,000 Flow Cytometry (FCM): 1:2,000Immunocytochemistry (IC): 1:100-1:1,000 |

## Target information (P42345)

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|---|---|
| **Gene Name** | MTOR |
| **About Gene Symbol** | 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 cellul |

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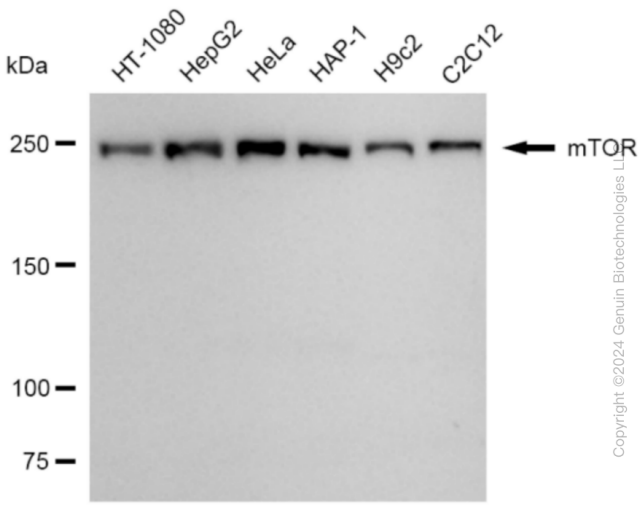


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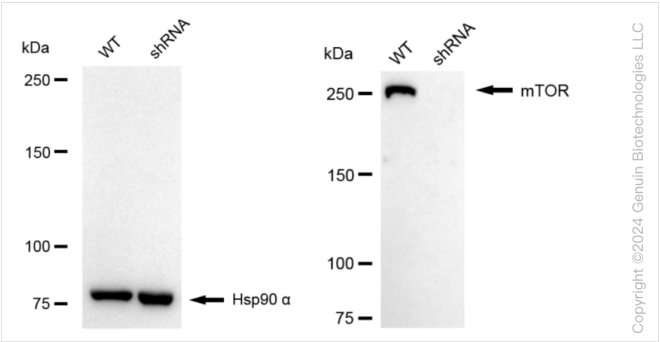
Western blotting analysis using anti-mTOR antibody (Cat#ABG1793). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-mTOR antibody (Cat#ABG1793, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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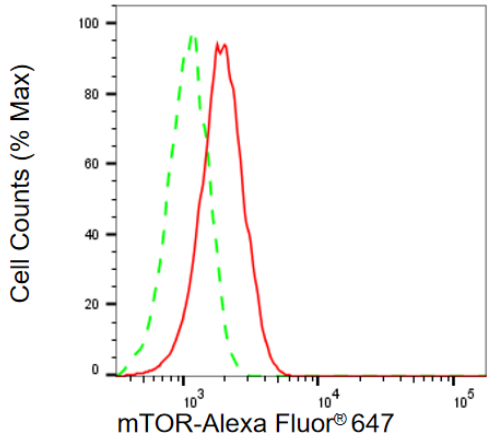
Western blotting analysis using anti-mTOR antibody (Cat#ABG1793). mTOR expression in wild-type (WT) and MTOR shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-mTOR antibody (Cat#ABG1793, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

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Flow cytometric analysis of mTOR expression in HepG2 cells using anti-mTOR antibody (Cat#ABG1793, 1:2,000). Green, isotype control; red, mTOR.

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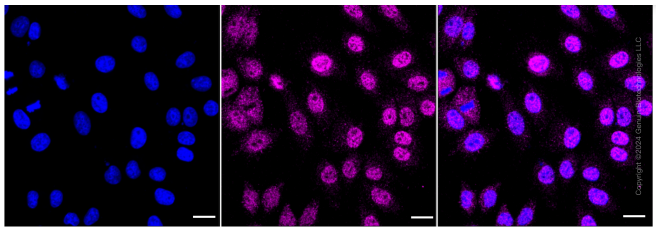

Immunocytochemical staining of HepG2 cells with anti-mTOR antibody (Cat#ABG1793, 1:1,000). Nuclei were stained blue with DAPI; mTOR was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.