Phospho-mTOR (Ser2448) (E11) rabbit mAb

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Catalog: #2376 **Store at:** -20ºC

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Applications	Detection	Clonality	Isotype
WB	Anti-Rabbit IgG	Monoclonal	Rabbit IgGk

Format: Unconjugated

Cross Reactivity: Predicted to work with mouse, rat and other homologues.

Formulation: 1X PBS, 0.02% NaN3, 50% Glycerol, 0.1% BSA

Preparation: Protein A+G

Reactivity: Human,Mouse

Recommended Usage: 1µg/mL – 0.001µg/mL. It is recommended that the reagent be titrated for optimal performance for each application. See product image legends for additional information.

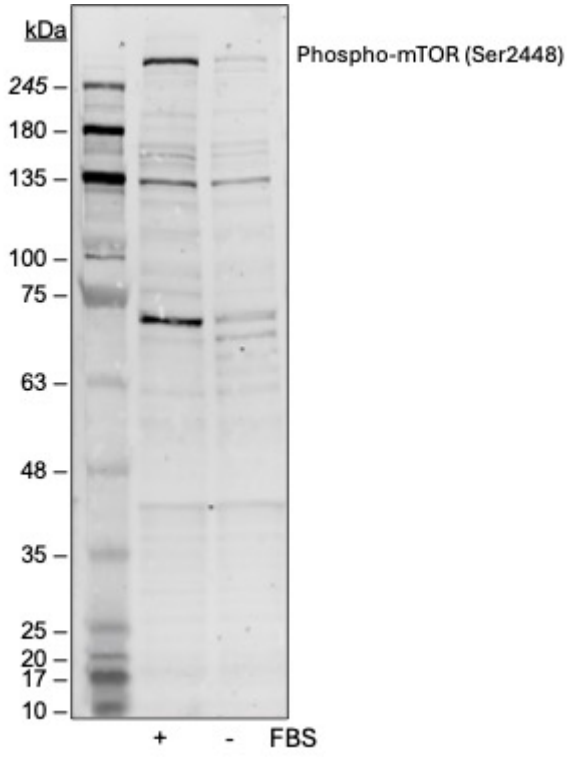
Immunogen: A synthetic phospho-peptide corresponding to residues surrounding Ser2448 of human phospho mTOR

Description: mTOR, **m**ammalian **t**arget **o**f **r**apamycin, is a Serine/Threonine protein kinase (1-2) that functions as an amino acid and ATP sensor to balance cell growth and nutrient availability (3-4). When sufficient nutrients are available, mTOR transmits a positive signal to p70 S6 kinase and participates in the inactivation of 4E-BP1 (5). mTOR plays a key role in homeostasis and cell growth, and phospho mTOR may be abnormally regulated in tumors. mTOR is a potential target for anti-cancer therapy (6).

References:

1. Sabers, C.J. et al. (1995) J. Biol. Chem. 270: 815-822.
2. Brown, E.J. et al. (1994) Nature. 369: 756-758.
3. Gingras, A.C. et al. (2001) Gene. Dev. 15: 807-826.
4. Dennis, P.B. et al. (2001) Science. 294: 1102-1105.
5. Fang, Y. et al. (2001) Science. 294: 1942-1945.
6. Huang, S. and Houghton, P.J. (2003) Curr. Op. Pharmacol. 3: 371-377.

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Western blot analysis: HEK293T cells serum starved overnight and then untreated (-) or treated with 20% FBS for 5 min using phospho-mTOR (Ser2448) (E11) (#2376) at 0.05 ug/mL.

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