

Basic Information

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| Product Name | Anti-mTOR (Phospho-S2448) Antibody (Clone#IFF-13) |
| Gene Name | MTOR |
| Source | Rabbit |
| Clonality | Monoclonal |
| Isotype | IgG |
| Species Reactivity | human, mouse, rat |
| Tested Application | WB, IHC |
| Contents | 500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol. |
| Immunogen | A synthesized peptide derived from human Phospho-mTOR (S2448) |
| Concentration | 500 ug/ml |
| Purification | Affinity-chromatography |
| Observed MW | 289 kDa |
| Dilution Ratios | Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200 |

Storage

12 months from date of receipt, -20°C as supplied.

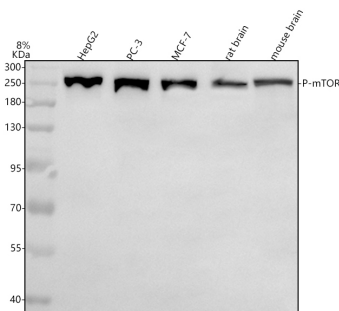
Background Information

The mammalian target of rapamycin (mTOR), also known as the mechanistic target of rapamycin and FK506-binding protein 12-rapamycin-associated protein 1 (FRAP1), is a kinase that in humans is encoded by the MTOR gene. The protein encoded by this gene belongs to a family of phosphatidylinositol kinase-related kinases. These kinases mediate cellular responses to stresses such as DNA damage and nutrient deprivation. This protein acts as the target for the cell-cycle arrest and immunosuppressive effects of the FKBP12-rapamycin complex. The ANGPTL7 gene is located in an intron of this gene.

Reference

Anti-mTOR (Phospho-S2448) Antibody (Clone#IFF-13)被引用在32文献中。

Selected Validation Data



Western blot analysis of anti-mTOR (Phospho-S2448) antibody (BM4840). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HepG2 whole cell lysates,

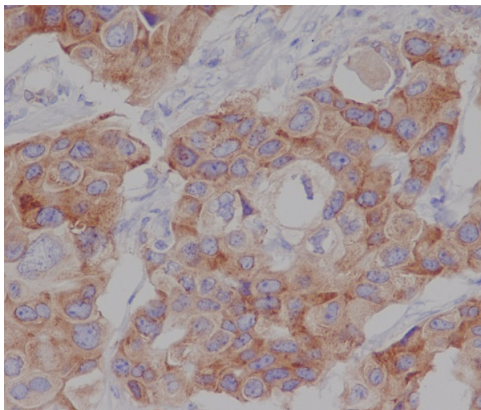
Lane 2: human PC-3 whole cell lysates,

Lane 3: human MCF-7 whole cell lysates,

Lane 4: rat brain tissue lysates,

Lane 5: mouse brain tissue lysates.

After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-mTOR (Phospho-S2448) antigen affinity purified monoclonal antibody (BM4840) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for mTOR (Phospho-S2448) at approximately 289 kDa. The expected band size for mTOR (Phospho-S2448) is at 289 kDa.



Immunohistochemical analysis of paraffin-embedded human breast cancer, using Phospho-mTOR (S2448) Antibody.