

Anti-P-MTOR(Ser2448) Rabbit pAb



WLH3897

For Research Use Only. Not For Use In Diagnostic Procedures

Product Information

Product name	Anti-P-MTOR(Ser2448) Rabbit pAb		
Source	Rabbit		
Species reactivity	Human, Mouse, Rat		
Tested applications	WB	1:500-1:1000	
	IHC, IF	1:100-1:400	
Cellular localization	Endoplasmic reticulum membrane. Golgi apparatus membrane.		
	Mitochondrion outer membrane. Lysosome. Cytoplasm. Nucleus.		
Pack size	50/100/200/500/1000μl		
Storage	Store at -20°C. Avoid freeze/thaw cycles.		
Storage buffer	Supplied in 20 mM phosphate (pH 7.5), 150 mM NaCl, 100 μg/ml		
	BSA, 50% glycerol and less than 0.02% sodium azide		

General Information

Background	The mammalian target of rapamycin (mTOR, FRAP, RAFT) is a Ser/Thr protein kinase that functions as an ATP and amino acid sensor to balance nutrient availability and cell growth. When sufficient nutrients are available, mTOR responds to a phosphatidic acid-mediated signal to transmit a positive signal to p70 S6 kinase and participate in the inactivation of the eIF4E inhibitor, 4E-BP1. mTOR is phosphorylated at Ser2448 via the PI3 kinase/Akt signaling pathway and autophosphorylated at Ser2481. mTOR plays a key role in cell growth and homeostasis and may be abnormally regulated in tumors. For these reasons, mTOR is currently under investigation as a potential target for anti-cancer therapy.
Immunogen	Polyclonal antibody is produced by immunizing animals with a synthetic peptide of P-MTOR(Ser2448).
Purification	Polyclonal antibody was purified by immunogen affinity chromatography.

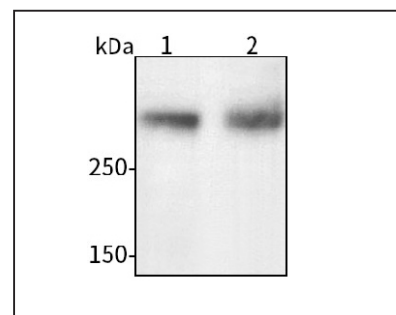
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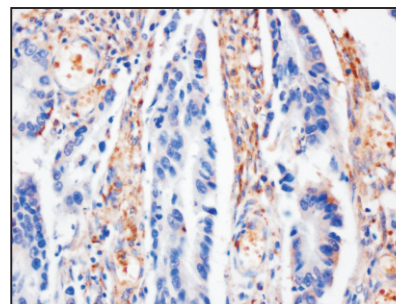
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Product Images



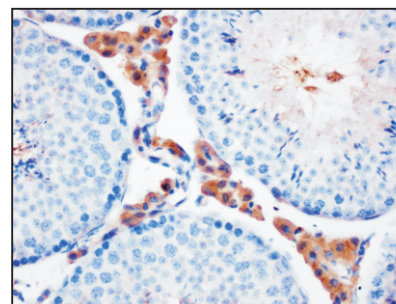
Western blot-Anti-P-MTOR(Ser2448) pAb

Lane 1: Human A549 cell lysate
 Lane 2: Human HUVEC cell lysate
 All lanes: Anti-P-MTOR(Ser2448) at 1:1000 dilution
 Lysates/proteins at 20-50 μg per lane.
 Predicted band size: 289 kDa
 Observed band size: 289 kDa



Immunohistochemistry-Anti-P-MTOR(Ser2448) pAb

Sample: Human colon cancer tissue
 Antigen retrieval: pH 9.0 Tris-EDTA buffer
 Primary antibody: 1:200, 4°C, overnight
 Secondary antibody-Biotin: 1:150, 37°C, 1h
 Streptavidin-HRP: 1:200, 37°C, 30min
 Visualization: DAB



Immunohistochemistry-Anti-P-MTOR(Ser2448) pAb

Sample: Mouse testis tissue
 Antigen retrieval: pH 9.0 Tris-EDTA buffer
 Primary antibody: 1:200, 4°C, overnight
 Secondary antibody-Biotin: 1:150, 37°C, 1h
 Streptavidin-HRP: 1:200, 37°C, 30min
 Visualization: DAB

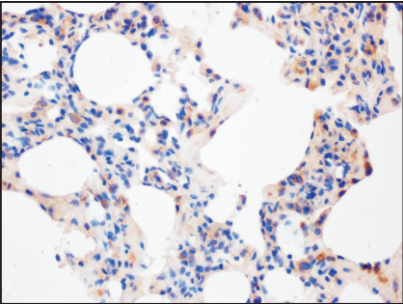
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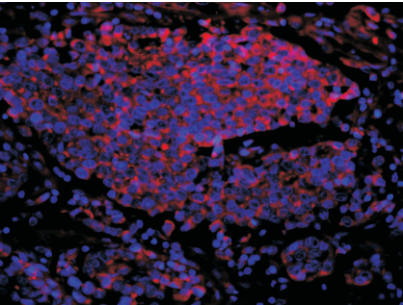
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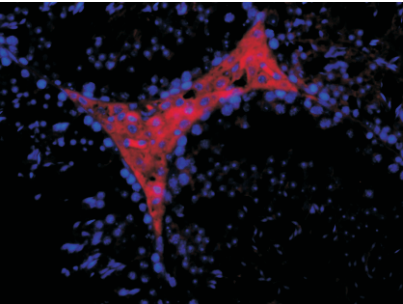
Immunohistochemistry-Anti-P-MTOR(Ser2448) pAb

Sample: Rat lung tissue
Antigen retrieval: pH 9.0 Tris-EDTA buffer
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-Biotin: 1:150, 37°C, 1h
Streptavidin-HRP: 1:200, 37°C, 30min
Visualization: DAB



Immunofluorescence-Anti-P-MTOR(Ser2448) pAb

Sample: Human colon cancer tissue
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-CY3: 1:200, at room temperature, 1h



Immunofluorescence-Anti-P-MTOR(Ser2448) pAb

Sample: Mouse testis tissue
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-CY3: 1:200, at room temperature, 1h

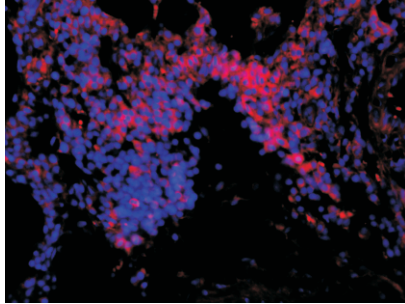
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Immunofluorescence-Anti-P-MTOR(Ser2448) pAb

Sample: Rat lung tissue
Primary antibody: 1:200, 4°C, overnight
Secondary antibody-CY3: 1:200, at room temperature, 1h