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mTOR (Phospho Ser2481) Rabbit mAb (AR1876)

Key Features

Host Species:	Rabbit
Reactivity:	Human,Mouse,Rat
Applications:	WB,IF,ELISA
Isotype:	IgG,Kappa
MW:	289kDa (Calculated) 289kDa (Observed)

Recommended Dilution Ratios

WB:	1:2000-10000
IF:	1:200-1000
ELISA:	1:5000-20000

Storage

-15°C to -25°C/1 year (Do not lower than -25°C)

Basic Information

Clonality	Monoclonal

Immunogen Information

Specificity	Phospho-mTOR (S2481) Antibody detects endogenous levels of mTOR protein only when phosphorylated at S2481.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep thesites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): IHsFI

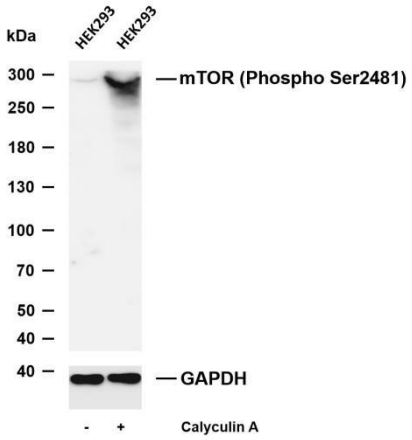
Target Information

Gene name	MTOR
Protein Name	Serine/threonine-protein kinase mTOR

Organism	Gene ID	UniProt ID
Human	2475	P42345
Mouse	56717	Q9JLN9
Rat	56718	P42346

Cellular Localization	Endoplasmic reticulum membrane; Peripheral membrane protein; Cytoplasmic side. Golgi apparatus membrane; Peripheral membrane protein; Cytoplasmic side. Mitochondrion outer membrane; Peripheral membrane protein; Cytoplasmic side. Lysosome. Cytoplasm. Nucleus, PML body. Microsome membrane. Lysosome membrane. Cytoplasmic vesicle, phagosome. Shuttles between cytoplasm and nucleus. Accumulates in the nucleus in response to hypoxia (By similarity). Targeting to lysosomes depends on amino acid availability and RRAGA and RRAGB (PubMed:18497260, PubMed:20381137). Lysosome targeting also depends on interaction with MEAK7. Translocates to the lysosome membrane in the presence of TM4SF5 (PubMed:30956113).
Tissue specificity	Expressed in numerous tissues, with highest levels in testis.

Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-mTOR (Phospho Ser2481) antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody.
Lane 1: HEK293
Lane 2: HEK293 was treated with Calyculin A(100nM) for 1 hour
Predicted band size: 289kDa
Observed band size: 289kDa

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