

## Datasheet: MCA6317

<b>Description:</b>	RABBIT ANTI mTOR
<b>Specificity:</b>	mTOR
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RM274
<b>Isotype:</b>	IgG
<b>Quantity:</b>	0.1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			1/500 - 1/1000
Western Blotting	▪			1/1000 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography of Protein A from animal origin-free culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	1% Bovine Serum Albumin 50% Glycerol
<b>Immunogen</b>	A peptide corresponding to Human serine/threonine-protein kinase mTOR
<b>External Database Links</b>	<b>UniProt:</b>

[P42345](#)   [Related reagents](#)

**Entrez Gene:**

[2475](#)   MTOR   [Related reagents](#)

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**Synonyms**      FRAP, FRAP1, FRAP2

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**Specificity**      **Rabbit anti Human mTOR antibody** recognizes mammalian/mechanistic target of rapamycin (mTOR), also known as FRAP, RAFT1. mTOR is a serine/threonine protein kinase belonging to the PI3K-related kinase (PIKK) family. mTOR forms two distinct multiprotein complexes named mTORC1 and mTORC2, which play key roles in regulatory processes of cells ([Xie et al. 2016](#)). mTOR regulates cell growth and metabolism in response to environmental cues and cell stress, including nutrient starvation, growth factor deprivation and hypoxia ([Lamm et al. 2019](#)). The mTOR signaling pathway plays a role in cancer cell proliferation, cell cycle and apoptosis. mTOR dysregulation is linked to tumorigenesis, and is associated with a poor prognosis ([Wang et al. 2018](#)). mTORC1 hyperactivation is estimated to occur in up to 70% of human tumors, and mTOR has been suggested as a potential target for anti-cancer therapy.

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**Storage**      Store at -20°C only.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Should this product contain a precipitate we recommend microcentrifugation before use

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**Guarantee**      12 months from date of despatch

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**Health And Safety Information**      Material Safety Datasheet documentation #10048 available at:  
10048: <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

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**Regulatory**      For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)      [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...)      [RPE](#)  
Sheep Anti Rabbit IgG (STAR36...)      [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)  
'M377119:210212'

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