

Datasheet: MCA6317

BATCH NUMBER 155787

Description:	RABBIT ANTI mTOR
Specificity:	mTOR
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	RM274
Isotype:	IgG
Quantity:	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.

	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.

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

Links

[P42345](#) [Related reagents](#)

Entrez Gene:

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

Synonyms FRAP, FRAP1, FRAP2

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.

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

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10048 available at: <https://www.bio-rad-antibodies.com/SDS/MCA6317>
10048

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
- Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
- Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

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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)
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