Datasheet: MCA6317

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 Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin
50% Glycerol

Immunogen

A peptide corresponding to Human serine/threonine-protein kinase mTOR

External Database Links

UniProt:

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 kinse (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 (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

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Printed on 18 Jan 2024