



Rabbit Anti-mTOR monoclonal antibody, clone TV41-11 (DCABH-3111)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	mTOR
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TV41-11
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, IHC, IP
Molecular Weight	289 kDa
Cellular Localization	Cytoplasm, Nucleus, Endoplasmic reticulum membrane, Golgi apparatus membrane, Mitochondrion outer membrane.
Positive Control	Human breast carcinoma tissue, human kidney tissue, mouse testis tissue, mouse kidney tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.

Preservative	0.05% Sodium Azide
Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction

The phosphatidylinositol kinase (PIK) family members fall into two distinct subgroups. The first subgroup contains proteins such as the PI 3- and PI 4-kinases and the second group comprises the PIK-related kinases. The PIK-related kinases include Atm, DNA-PKCS and FRAP. These proteins have in common a region of homology at their carboxy-termini that is not present in the PI 3- and PI 4-kinases. The Atm gene is mutated in the autosomal recessive disorder ataxia telangiectasia (AT) that is characterized by cerebellar degeneration (ataxia) and the appearance of dilated blood vessels (telangiectases) in the conjunctivae of the eyes. AT cells are hypersensitive to ionizing radiation, impaired in mediating the inhibition of DNA synthesis and display delays in p53 induction. DNA-PK is a heterotrimeric DNA binding enzyme that is composed of a large subunit, DNA-PKCS, and two smaller subunits collectively known as Ku. The loss of DNA-PK leads to defects in DSB repair and V(D)J recombination. FRAP can autophosphorylate on serine and bind to Rapamycin/FKBP. FRAP is also an upstream regulator of S6 kinase and has been implicated in the regulation of p27 and p21 expression.

Keywords

dJ576K7.1 (FK506 binding protein 12 rapamycin associated protein 1);FK506 binding protein 12 rapamycin associated protein 1;FK506 binding protein 12 rapamycin associated protein 2;FK506 binding protein 12 rapamycin complex associated protein 1;FK506-binding protein 12-rapamycin complex-associated protein 1;FKBP rapamycin associated protein;FKBP12 rapamycin complex associated protein;FKBP12-rapamycin complex-associated protein 1;FKBP12-rapamycin complex-associated protein;FLJ44809;FRAP;FRAP1;FRAP2;Mammalian target of rapamycin;Mechanistic target of rapamycin;mTOR;MTOR_HUMAN;OTTHUMP0000001983;RAFT1;Rapamycin and FKBP12 target 1;Rapamycin associated protein FRAP2;Rapamycin target protein 1;Rapamycin target protein;RAPT1;Serine/threonine-protein kinase mTOR antibody