Datasheet for ABIN560949

anti-MTOR antibody (AA 1521-1620)

2 Images

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Overview

Quantity:	100 µg
Target:	MTOR (mTOR)
Binding Specificity:	AA 1521-1620
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MTOR antibody is un-conjugated
Application:	ELISA, Proximity Ligation Assay (PLA)

Product Details

Purpose:	Mouse monoclonal antibody raised against a partial recombinant FRAP1.
Immunogen:	MTOR (NP_004949, 1521 a.a. ~ 1620 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence:	WGLGQWDSME EYTCMIPRDT HDGAFYRAVL ALHQDLFSLA QQCIDKARDL LDAELTAMAG ESYSRAYGAM VSCHMLSELE EVIQYKLVPE RREIIRQIWW
Clone:	2C5
Isotype:	IgG1
Cross-Reactivity:	Human
Characteristics:	Antibody Reactive Against Recombinant Protein.

Target Details

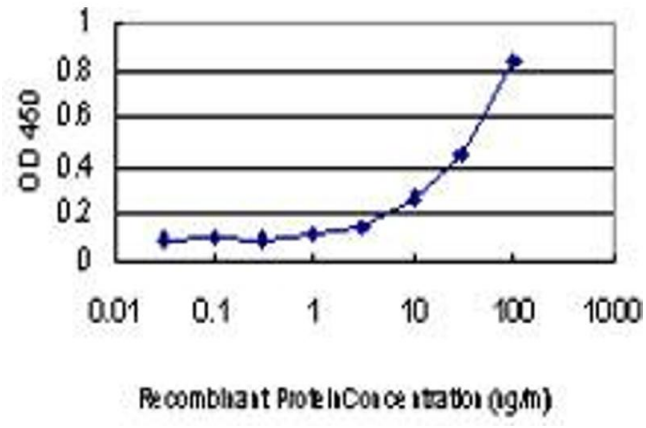
Target:	MTOR (mTOR)
Alternative Name:	MTOR (mTOR Products)
Background:	Full Gene Name: mechanistic target of rapamycin Synonyms: FRAP,FRAP1,FRAP2,RAFT1,RAPT1
Gene ID:	2475
NCBI Accession:	NM_004958
Pathways:	PI3K-Akt Signaling, RTK Signaling, AMPK Signaling, Interferon-gamma Pathway, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Regulation of Actin Filament Polymerization, Regulation of Muscle Cell Differentiation, Regulation of Cell Size, Skeletal Muscle Fiber Development, Regulation of Carbohydrate Metabolic Process, Autophagy, CXCR4-mediated Signaling Events, BCR Signaling, Warburg Effect

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

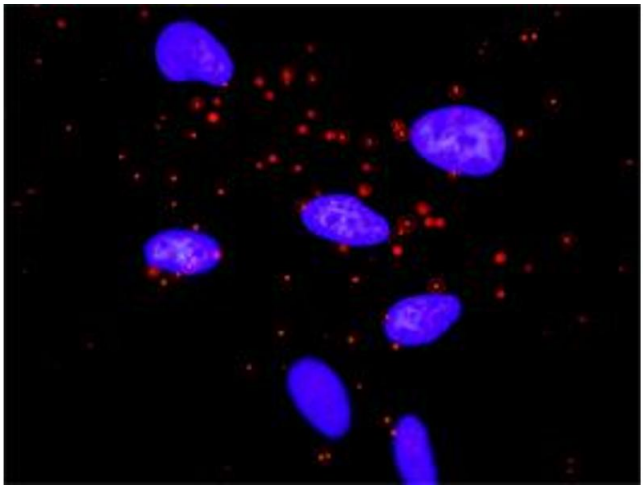
Handling

Buffer:	In 1x PBS, pH 7.4
Handling Advice:	Aliquot to avoid repeated freezing and thawing.
Storage:	-20 °C
Storage Comment:	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.



ELISA

Image 1. Detection limit for recombinant GST tagged MTOR is approximately 3ng/ml as a capture antibody.



Proximity Ligation Assay

Image 2. Proximity Ligation Analysis of protein-protein interactions between AKT1 and MTOR. HeLa cells were stained with anti-AKT1 rabbit purified polyclonal 1:1200 and anti-MTOR mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

