

# Product Datasheet

## TOR/mTOR Antibody 28130002-0.1mg

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**28130002-0.1mg**

TOR/mTOR Antibody

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	20mM Potassium Phosphate (pH 7.0) and 0.15M NaCl

**Product Description**

<b>Host</b>	Rabbit
<b>Gene ID</b>	2475
<b>Gene Symbol</b>	MTOR
<b>Species</b>	Human
<b>Reactivity Notes</b>	Human.
<b>Specificity/Sensitivity</b>	This product is specific for Human FRAP1.
<b>Immunogen</b>	This antibody is specific for the C Terminus Region of the target protein.
<b>Notes</b>	Manufactured by SDIX's proprietary Genomic Antibody Technology <sup>®</sup> ; GAT <a href="#">FAQs</a> .

**Product Application Details**

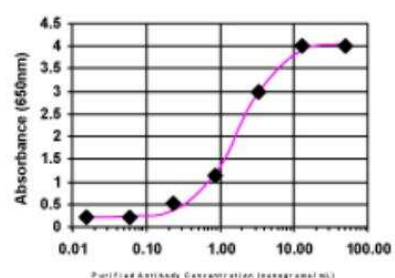
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:5000-1:20000, ELISA 1:100-1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 1:10-1:500, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:250-1:2000
<b>Application Notes</b>	This antibody is useful in Immunofluorescence (PMID: 21867682).



## Images

### ELISA: TOR/mTOR Antibody [28130002]

#### ELISA:



The affinity purified antibody was serially diluted onto an ELISA plate coated with a recombinant protein fragment.

**Immunoprecipitation: TOR/mTOR Antibody [28130002]** - Several commercially available antibodies which were generated using short peptides failed to isolate the FRAP1 protein complexes. SDI's FRAP1 (TOR/mTOR) antibody, 2813.00.02, was generated using in vivo expressed immunogen of 100 amino acids. It was used to pull down protein complexes through immunoprecipitation. It demonstrated that Rictor and Raptor formed the distinct complexes with FRAP (mTOR). The immunoprecipitation conditions were described in Sarbassov et al (Phosphorylation and regulation of Akt/PKB by the Rictor-mTOR complex, Science 307:1098-1101, 2005, supporting online material, material and methods). FRAP1 was detected in Western blot using FRAP1 antibody at 1:4000 dilution. The experiments were performed using MDA MB-435 human cancer cell line and NF2 was used as control.

#### Immunoprecipitation (IP) using SDI's FRAP1 (mTOR) antibody



## Publications

Garrison C, Lastwika K, Zhang Y et al. Proteomic Analysis, Immune Dysregulation, and Pathway Interconnections With Obesity J Proteome Res. 2017-01-06 [PMID: 27769113] (MiAr)

#### Details:

Analysis is performed on plasma proteomic data to identify how obesity can alter pathways and to highlight the risk factor for disease in subjects with a high body mass index.

Rho JH, Lampe PD. High-throughput screening for native autoantigen-autoantibody complexes using antibody microarrays J Proteome Res. 2013-05-03 [PMID: 23541305] (MiAr)

#### Details:

A novel method using antibody microarrays is used to detect autoantibody-antigen complexes that can potentially be useful for detection and characterization of diseases.

Boulbes DR, Shaiken T, Sarbassov DD. Endoplasmic reticulum is a main localization site of mTORC2. Biochem Biophys Res Commun. 2011-08-16 [PMID: 21867682]



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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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