

For Research Use Only

# MIOS Recombinant antibody

Catalog Number: 83856-5-RR



## Basic Information

<b>Catalog Number:</b> 83856-5-RR	<b>GenBank Accession Number:</b> BC005883	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 54468	<b>CloneNo.:</b> 240832B9
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NXC5	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG	<b>Full Name:</b> missing oocyte, meiosis regulator, homolog (Drosophila)	
<b>Immunogen Catalog Number:</b> AG15148	<b>Calculated MW:</b> 875 aa, 99 kDa	
	<b>Observed MW:</b> 82 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : K-562 cells, HeLa cells, HEK-293T cells, Jurkat cells, NIH/3T3 cells, mouse brain tissue,
<b>Species Specificity:</b> human, mouse	

## Background Information

The mechanistic target of rapamycin complex 1 (mTORC1) controls growth by regulating anabolic and catabolic processes in response to environmental cues, including nutrients. Amino acids signal to mTORC1 through the Rag GTPases, which are regulated by several protein complexes, including GATOR1 and GATOR2. GATOR2, which has five components (WDR24, MIOS, WDR59, SEH1L, SEC13), is required for amino acids to activate mTORC1. PMID: 35831510

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

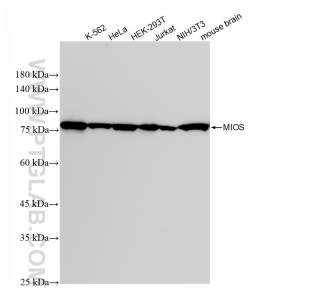
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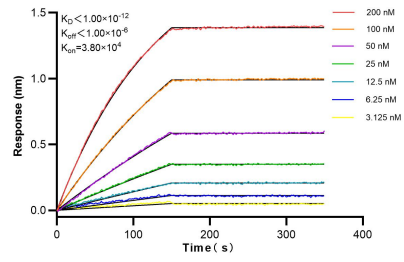
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83856-5-RR (MIOS antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83856-5-RR against Human MIOS were performed. The affinity constant is below 1 pM.