

For Research Use Only

# MIOS Recombinant antibody

Catalog Number: 83856-4-RR



## Basic Information

**Catalog Number:**

83856-4-RR

**Size:**

850 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG15148

**GenBank Accession Number:**

BC005883

**GeneID (NCBI):**

54468

**UNIPROT ID:**

Q9NXC5

**Full Name:**

missing oocyte, meiosis regulator,  
homolog (Drosophila)

**Calculated MW:**

875 aa, 99 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

240832D12

**Recommended Dilutions:**

IF/ICC 1:125-1:500

## Applications

**Tested Applications:**

IF/ICC, ELISA

**Species Specificity:**

human

**Positive Controls:**

IF/ICC : U2OS cells,

## 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: 3583151

## 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

For technical support and original validation data for this product please contact:

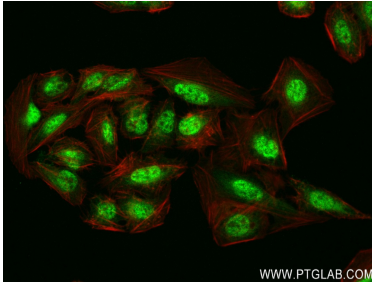
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

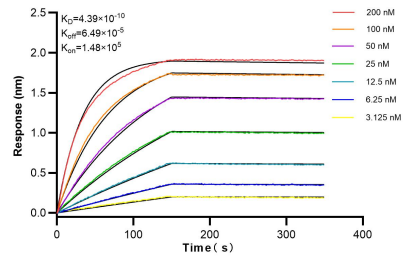
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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using MIOS antibody (83856-4-RR, Clone: 240832D12 ) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 83856-4-RR against Human MIOS were performed. The affinity constant is 0.439 nM.