

# RHOBTB1 Recombinant antibody

Catalog Number: 83342-1-RR

## Basic Information

## Catalog Number:

83342-1-RR

## Size:

1000 µg/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG3365

## GenBank Accession Number:

BC032848

## GeneID (NCBI):

9886

## UNIPROT ID:

O94844

## Full Name:

Rho-related BTB domain containing 1

## Calculated MW:

696 aa, 79 kDa

## Observed MW:

79 kDa

## Purification Method:

Protein A purification

## CloneNo.:

240253F10

## Recommended Dilutions:

WB 1:5000-1:50000

## Applications

## Tested Applications:

WB, ELISA

## Species Specificity:

Human

## Positive Controls:

WB : HeLa cells, HepG2 cells, U-251 cells, HT-29 cells

## Background Information

Rho-related BTB domain containing protein 1 (RhoBTB1) is also named as KIAA0740. RhoBTB1 is an atypical Rho GTPase with two BTB domains in addition to its Rho domain. RhoBTB1 is a substrate for ROCK1, and mutation of putative phosphorylation sites reduces its association with Cullin3, a scaffold for ubiquitin ligases (PMID: 31431478). RHOBTB1 is a novel PPAR $\gamma$  gene target in vascular smooth muscle cells that mediates the protective effect of PPAR $\gamma$  by serving as a substrate adaptor between the Cullin-3 RING ubiquitin ligase and phosphodiesterase 5, thus restraining its activity through ubiquitination and proteasomal degradation (PMID: 31789920).

## 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

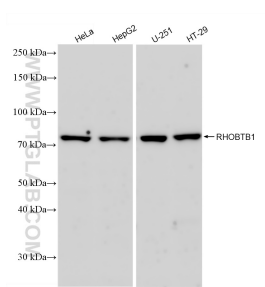
For technical support and original validation data for this product please contact:

T: 4006900926

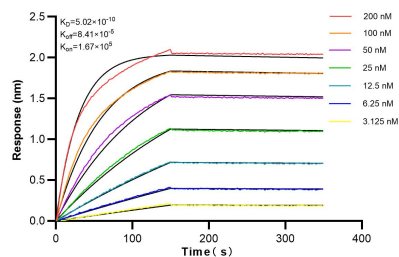
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83342-1-RR (RHOBTB1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83342-1-RR against Human RHOBTB1 were performed. The affinity constant is 0.502 nM.