

For Research Use Only

# DIAPH3 Recombinant antibody

Catalog Number:85701-1-RR



## Basic Information

<b>Catalog Number:</b> 85701-1-RR	<b>GenBank Accession Number:</b> BC048963	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 81624	<b>CloneNo.:</b> 242950G7
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NSV4	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG	<b>Full Name:</b> diaphanous homolog 3 (Drosophila)	
<b>Immunogen Catalog Number:</b> AG6631	<b>Calculated MW:</b> 137 kDa	
	<b>Observed MW:</b> 140 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : HeLa cells, A549 cells, U2OS cells, HEK-293 cells, DU 145 cells, MCF-7 cells
<b>Species Specificity:</b> human	

## Background Information

DIAPH3 is also referred as diaphanous-related formin-3 which binds to GTP-bound form of Rho and to profilin, acts in a Rho-dependent manner to recruit profilin to the membrane. It is required for cytokinesis, stress fiber formation, and transcriptional activation of the serum response factor. Seven isoforms of DIAPH3 exist due to the alternative splicing. Recently it has been reported that dimerization and actin assembly activity of DIAPH3 isoforms 1 and 7 are essential for induction of specific cell protrusions. It may propose that isoform-selective actin assembly by DIAPH3 exerts specific and differentially regulated functions during cell adhesion and motility.

## Storage

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

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

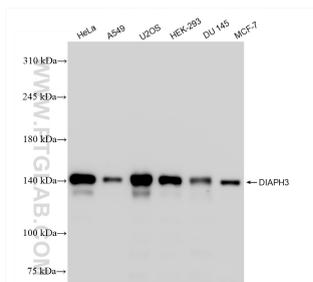
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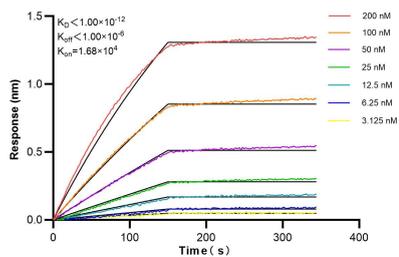
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85701-1-RR (DIAPH3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 85701-1-RR against Human DIAPH3 were performed. The affinity constant is below 1 pM.