SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Arfaptin 2 antibody

Catalog Number: SL1442R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Arfaptin 2
Immunogen:	KLH conjugated synthetic peptide derived from human Arfaptin 2: 221-341/341
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 ELISA=1:5000-10000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Cow, Rabbit, Sheep)
Predicted MW.:	38kDa
Subcellular Location:	cytoplasmic The cell membrane
Background:	ARFIP2 is a ubiquitously expressed protein implicated in mediating cross talk between RAC and ARF small GTPases. It has been shown that ARFIP2 binds specifically to GTP-bound ARF1 and ARF6, but binds to Rac-GTP and Rac-GDP with similar affinities. The X-ray structure of arfaptin reveals an elongated, crescent-shaped dimer of 3-helix coiled-coils. Structures of arfaptin with Rac bound to either GDP or the slowly hydrolysable analog GMPPNP show that the switch regions adopt similar conformations in both complexes. **Function:** Putative target protein of ADP-ribosylation factor. Involved in membrane ruffling. **Subunit:** Interacts with RAC1 by binding directly to it. Specifically binds to GTP-bound ARF1 and ARF6, but binds to RAC1.GTP and RAC1.GDP with similar affinities. Directly interacts with ARL1 GTP-bound form; this interaction leads to a > 4-fold increase in the amount of ARL1-bound GTP at

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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	steady state level. **Similarity:** Contains 1 AH domain. **Database links:** **Entrez Gene:** 23647 Human **Entrez Gene:** 76932 Mouse **Entrez Gene:** 293344 Rat Omim: 601638 Human **SwissProt:** P53365 Human **SwissProt:** Q8K221 Mouse **SwissProt:** Q6AY65 Rat **Unigene:** 595146 Human **Unigene:** 75139 Human **Unigene:** 41637 Mouse **Unigene:** 73878 Rat Trafficking and Transport

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