SunLong Biotech Co.,LTD
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[Marker Primary Antibody]

Rabbit Anti-RAP2B/AF647 Conjugated antibody

Catalog Number: SL2330R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-RAP2B/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human RAP2B
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Dog,Cow,Horse,Sheep)
Background:	background: RAP2B belongs to a family of RAS-related GTP-binding proteins. RAP proteins share approximately 50% amino acid identity with the classical RAS proteins and have numerous structural features in common. However, at their 61st amino acid the glutamine in RAS proteins is replaced by threonine in RAP proteins. RAP2A interacts with phospholipase C, epsilon 1 (PLCE1). **Function:** Small GTP-binding protein which cycles between a GDP-bound inactive and a GTP-bound active form. Involved in EGFR and CHRM3 signaling pathways through stimulation of PLCE1. May play a role in cytoskeletal rearrangements and regulate cell spreading through activation of the effector TNIK. May regulate membrane vesiculation in red blood cells. **Subunit:** Interacts with PLCE1. Interacts with SGSM1, SGSM2 and SGSM3. The GTP-bound form of RAP2B interacts with RUNDC3A **Subcellular Location:** Recycling endosome membrane; Lipid-anchor; Cytoplasmic side. Note=Associated with red blood cells-released vesicles

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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	Tissue Specificity: Expressed in red blood cells **Post-translational modifications:** Palmitoylated. Palmitoylation is required for association with recycling endosome membranes and activation of TNIK **Similarity:** Belongs to the small GTPase superfamily. Ras family. Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.