SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-FLJ14213 antibody

Catalog Number: SL16107R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	FLJ14213
Immunogen:	KLH conjugated synthetic peptide derived from human FLJ14213: 231-330/368
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:	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, Horse, Rabbit, Sheep)
Predicted MW.:	41kDa
Subcellular Location:	cytoplasmic
Background:	mTOR is a large protein kinase that is important in cell growth and functions as the mammalian target of Rapamycin, an immunosuppressant that blocks vessel restenosis and also has potential anticancer applications. Rapamycin-insensitive companion of mTOR, also designated Rictor, forms a complex (designated mTORC2) with mTOR that directly phosphorylates Akt/PKB on Ser473 and plays a key role in growth signaling pathways. Protor-2, also known as PROTOR2 or FLJ14213, is a 368 amino acid protein that is thought to interact with the mTORC2 complex and, via this interaction, may regulate organization of the Actin cytoskeleton. Three isoforms of Protor-2 are expressed due to alternative splicing events. **Function:** May be part of the TORC2 complex which plays a critical role in AKT1 'Ser-473' phosphorylation, and may modulate the phosphorylation of PKCA and regulate actin cytoskeleton organization. **Subunit:** Interacts with the mammalian target of rapamycin complex 2

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	(mTORC2) which contains MTOR, MLST8, PRR5, RICTOR, MAPKAP1 and DEPTOR. Interacts with RFFL. **Post-translational modifications:** Ubiquitinated. Ubiquitination by RFFL promotes proteasomal degradation of PRR5L thereby modifying the substrate-specific activity of the mTORC2 complex. Ubiquitination by RFFL is stimulated by LPA/lysophosphatidic acid. **Similarity:** Belongs to the PROTOR family. **Database links:** **Entrez Gene:** 79899 Human **Entrez Gene:** 505048 Cow **Entrez Gene:** 72446 Mouse **Entrez Gene:** 362171 Rat Omim: 611728 Human **SwissProt:** Q6MZQ0 Human **SwissProt:** A2AVJ5 Mouse **SwissProt:** A1L1K1 Rat **Unigene:** 19987 Human **Unigene:** 24138 Mouse **Unigene:** 19060 Rat

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