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Rabbit Anti-Kidins220/APC Conjugated antibody

SL7040R-APC

Product Name	Anti-Kidins220/APC
Chinese Name	APC 标记的 220kDa 蛋白激酶 D 相互作用蛋白抗体
Alias	Ankyrin repeat-rich membrane-spanning protein; arms; KDIS_HUMAN; Kidins220; Kinase D interacting substance of 220 kDa; Kinase D-interacting substrate of 220 kDa; rgd 619949.
Research Area	Cardiovascular Cell biology Neurobiology Signal transduction Apoptosis transcriptional regulatory factor Kinases and Phosphatases The cell membrane 受体
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Rat(predicted:Mouse,Cow,Rabbit)
Applications	Flow-Cyt=1:50-200 IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	196kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Kidins220
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
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.
Product Detail	**background:** Promotes a prolonged MAP-kinase signaling by neurotrophins through activation of a Rap1-dependent mechanism. Provides a docking site for the

CRKL-C3G complex, resulting in Rap1-dependent sustained ERK activation. May play an important role in regulating postsynaptic signal transduction through the syntrophin-mediated localization of receptor tyrosine kinases such as EPHA4. In cooperation with SNTA1 can enhance EPHA4-induced JAK/STAT activation. May play a role in neurotrophin- and ephrin-mediated neuronal outgrowth and in axon guidance during neural development and in neuronal regeneration (By similarity). Modulates stress-induced apoptosis of melanoma cells via regulation of the MEK/ERK signaling pathway.

Function:
Promotes a prolonged MAP-kinase signaling byneurotrophins through activation of a Rap1-dependent mechanism.Provides a docking site for the CRKL-C3G complex, resulting inRap1-dependent sustained ERK activation. May play an important rolein regulating postsynaptic signal transduction through thesyntrophin-mediated localization of receptor tyrosine kinases suchas EPHA4. In cooperation with SNTA1 can enhance EPHA4-inducedJAK/STAT activation. May play a role in neurotrophin-andephrin-mediated neuronal outgrowth and in axon guidance duringneural development and in neuronal regeneration (By similarity).Modulates stress-induced apoptosis of melanoma cells via regulationof the MEK/ERK signaling pathway.

Subunit:
Interacts with NTRK1, NTRK2, NTRK3, ERKL and NGFR. Can form a ternary complex with NGFR and NTRK1 and this complex is affected by the expression levels of KIDINS220/ARMS. An increase in KIDINS220/ARMS expression leads to a decreased association of NGFR and NTRK1. Interacts with SNTA1 and SNTB2 and binds to their PDZ domains. Interacts with EPHA4 and PRKD1.

Subcellular Location:
Membrane; Multi-pass membrane protein (Potential).

Tissue Specificity:
Expressed in developing nervous system and in highly plastic areas of the adult brain. Also expressed in neuroendocrine cells, where it concentrates at the tip of neurites. Expressed in developing muscle and is concentrated at the neuromuscular junction (NMS). SNTA1 can regulate its localization in the NMS.

Post-translational modifications:
Tyrosine phosphorylated by NTRK1, NTRK2, EPHB2 and EPHA4.Phosphorylation at Ser-918 is induced by phorbol ester treatment.Phosphorylation by NTRK2 is induced by brain-derived

neurotrophicfactor (BDNF) and neurotrophin-4/5. Phosphorylation by NTRK1 isinduced by nerve growth factor (NGF) (By similarity).

Similarity:
Contains 12 ANK repeats.
Contains 1 KAP NTPase domain.

Database links:

Entrez Gene: 57498 Human

Entrez Gene: 77480 Mouse

Entrez Gene: 116478 Rat

SwissProt: Q9ULH0 Human

SwissProt: Q9EQG6 Rat

Unigene: 9873 Human

Unigene: 250641 Mouse

Unigene: 21470 Rat

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