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Kidins220 Rabbit pAb

Catalog # AP97517

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9ULH0
Other Accession	Q9ULH0
Reactivity	Rat, Human
Predicted	Mouse, Rabbit
Host	Rabbit
Clonality	Polyclonal
Calculated MW	196542
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Kidins220
Epitope Specificity	651-750/1771
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 12 ANK repeats.Contains 1 KAP NTPase domain.
SUBUNIT	nteracts with NTRK1, NTRK2, NTRK3, ERKL and NGFR. Canform a ternary complex with NGFR and NTRK1 and this complex isaffected by the expression levels of KIDINS220/ARMS. An increase inKIDINS220/ARMS expression leads to a decreased association of NGFRand NTRK1. Interacts with SNTA1 and SNTB2 and binds to their PDZdomains. Interacts with EPHA4 and PRKD1 (By similarity).
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).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	57498

Other Names	KDIS_HUMAN; KIDINS220; Ankyrin repeat-rich membrane-spanning protein; ARMS; KIAA1250; KDIS_RAT; kinase D interacting substrate 220; kinase D-interacting substrate 220kDa
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=1ug/Test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	KIDINS220
Synonyms	ARMS, KIAA1250
Function	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. Plays a role in nerve growth factor (NGF)-induced recruitment of RAPGEF2 to late endosomes and neurite outgrowth. 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.
Cellular Location	Membrane; Multi-pass membrane protein. Late endosome. Note=Localized at late endosome before or after nerve growth factor (NGF) stimulation
Tissue Location	Abundant in developing and adult neural tissues as well as neuroendocrine cells and dendritic cells. Overexpressed in melanoma and melanoma cell lines.

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