



Rabbit Anti-phospho-Kidins220 (Ser918) antibody

SL7041R

Product Name:	phospho-Kidins220 (Ser918)
Chinese Name:	磷酸化220kDa蛋白激酶D相互作用蛋白抗体
Alias:	Kidins220 (phospho S918); 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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Pig,Cow,Rabbit,Guinea Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	196kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthesised phosphopeptide derived from human Kidins220 around the phosphorylation site of Ser918:QM(p-S)FD
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	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 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.

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 (By similarity).

Subcellular Location:

Membrane.

Tissue Specificity:

Abundant in developing and adult neural tissues as well as neuroendocrine cells and dendritic cells. Overexpressed in melanoma and melanoma cell lines.

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 neurotrophic factor (BDNF) and neurotrophin-4/5. Phosphorylation by NTRK1 is induced by nerve growth factor (NGF) (By similarity).

Similarity:

Contains 12 ANK repeats.

Contains 1 KAP NTPase domain.

SWISS:

Q9ULH0

Gene ID:

57498

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.

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