

# CRK Recombinant Rabbit mAb

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Catalog # AP94824

## Product Information

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<b>Application</b>	WB, IF, ICC, IP
<b>Primary Accession</b>	<a href="#">Q96HJ0</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Recombinant
<b>Calculated MW</b>	34 kDa
<b>Physical State</b>	Liquid
<b>Immunogen</b>	A synthesized peptide derived from human CRK
<b>Epitope Specificity</b>	1-50/304
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
<b>SUBCELLULAR LOCATION</b>	Cytoplasm. Cell membrane. Note=Translocated to the plasma membrane upon cell adhesion.
<b>SIMILARITY</b>	Belongs to the CRK family. Contains 1 SH2 domain. Contains 2 SH3 domains.
<b>SUBUNIT</b>	Interacts with ABL1, C3G, SOS, MAP4K1, MAPK8 and DOCK3 via its first SH3 domain. Interacts (via SH2 domain) with BCAR1, CBL, CBLB, PXN, IRS4 and GAB1 upon stimulus-induced tyrosine phosphorylation. Interacts (via SH2 domain) with several tyrosine-phosphorylated growth factor receptors such as EGFR and INSR. Interacts with FLT1 (tyrosine-phosphorylated) (By similarity). Interacts with DOCK1 and DOCK4. Interacts with SHB. Interacts with PEAK1. Interacts with FASLG. Isoform Crk-II interacts with KIT. Interacts with EPHA3; upon activation of EPHA3 by the ligand EFNA5 and EPHA3 tyrosine kinase activity-dependent. Interacts with EPHA3 (phosphorylated); mediates EFNA5-EPHA3 signaling through RHOA GTPase activation. Interacts with FLT4 (tyrosine-phosphorylated). Isoform Crk-II (via SH2 domain) interacts with PDGFRA (tyrosine phosphorylated) and PDGFRB (tyrosine phosphorylated). Part of a collagen stimulated complex involved in cell migration composed of CDC42, CRK, TNK2 and p130cas/BCAR1. Interacts (via SH2 domain) with the 'Tyr-9' phosphorylated form of PDPK1.
<b>Post-translational modifications</b>	Phosphorylation of Crk-II (40 kDa) gives rise to a 42 kDa form. Isoform Crk-II is phosphorylated by KIT. Phosphorylated on Tyr-221 upon cell adhesion. Results in the negative regulation of the association with SH2- and SH3-binding partners, possibly by the formation of an intramolecular interaction of phosphorylated Tyr-221 with the SH2 domain. This leads finally to the down-regulation of the Crk signaling pathway. Proline isomerization at Pro-237 by PPIA acts as a switch between two conformations: an autoinhibitory conformation in the cis form, where the tandem SH3 domains interact intramolecularly, and an activated conformation in the trans form.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	The Crk-I and Crk-II forms differ in their biological activities. Crk-II has less

transforming activity than Crk-I. Crk-II mediates attachment-induced MAPK8 activation, membrane ruffling and cell motility in a Rac-dependent manner. Involved in phagocytosis of apoptotic cells and cell motility via its interaction with DOCK1 and DOCK4. May regulate the EFNA5-EPHA3 signaling.

## Additional Information

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<b>Dilution</b>	WB=1:1000-1:2000,ICC/IF=1:50-1:200,IP=1:20-1:50,Flow-Cyt=1:20-1:100
<b>Format</b>	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
<b>Storage</b>	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

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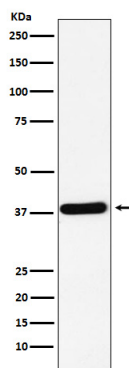
### Background

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### Images

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Western blot analysis of K562 cell lysate. Using CRK (AP94824) monoclonal antibody at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.