

Rabbit CrkII Polyclonal Antibody | anti-CrkII antibody

Phospho-CrkII (Tyr221) Antibody

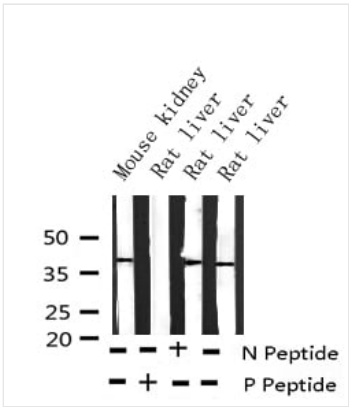
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321629	Rabbit	Human, Mouse, Rat, Monkey	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

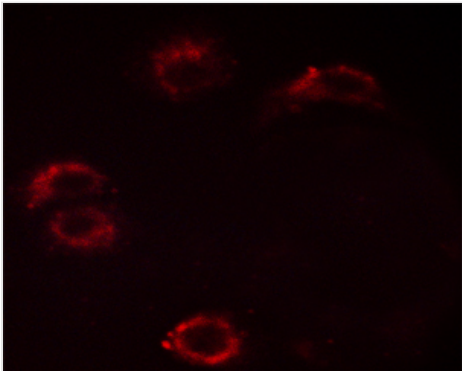
CrkII; Polyclonal Antibody; Phospho-CrkII (Tyr221) Antibody; Adapter molecule crk; Avian sarcoma virus CT10 (v crk) oncogene homolog; CRK; CRK isoform 2; CRK isoform II; CRK_HUMAN; CRKII; FLJ38130; OTTHUMP00000115366; OTTHUMP00000198330; p38; Proto oncogene C crk; Proto-oncogene C-cr; v crk avian sarcoma virus CT10 oncogene homolog; v crk sarcoma virus CT10 oncogene homolog; v crk sarcoma virus CT10 oncogene homolog (avian); anti-CrkII antibody

PRODUCT SPECIFICATIONS

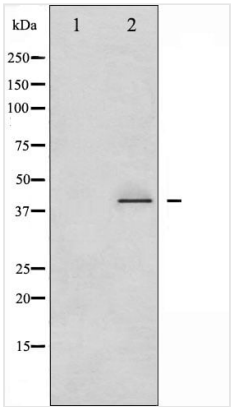
Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-CrkII (Tyr221) antibody detects endogenous levels of CrkII only when phosphorylated at Tyrosine 221
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	204
Applicable Applications for anti-CrkII antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human CrkII around the phosphorylation site of Tyrosine 221
Subcellular Location	Cytoplasm. Cell Membrane. Translocated to the plasma membrane upon cell adhesion.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Epitope	Phospho Tyr221
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



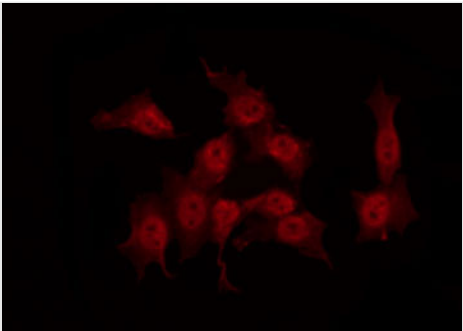
WB (Western Blot)
Western blot analysis of Phospho-CrkII (Tyr221) expression in various lysates



IF (Immunofluorescence)
AAA321629 staining HUVEC cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



WB (Western Blot)
Western blot analysis of CrkII phosphorylation expression in COS7 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)
AAA321629 staining COS7 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CrkII antibody	Description: Crk an adaptor protein with an SH2-SH3-SH3 domain structure. Recruits cytoplasmic proteins through SH2-phospho-tyrosine interaction. Phosphorylated by Abl, IGF-IR and EGFR. Function: Isoform Crk-II: Regulates cell adhesion, spreading and migration. 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. Subunit Structure: Interacts with ABL1, C3G, DOCK3, DOCK5, MAP4K1, MAPK8 and SOS 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). 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. Interacts with CBLC. Found in a complex with ABL1, ABL2, CRK and UNC119; leading to the inhibition of CRK phosphorylation by ABL kinases. Post-translational Modifications: 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. Similarity: The C-terminal SH3 domain function as a negative modulator for transformation and the N-terminal SH3 domain appears to function as a positive regulator for transformation. The SH2 domain mediates interaction with tyrosine phosphorylated proteins. Mediates interaction with SHB. Belongs to the CRK family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	41327710
NCBI GeneID	1398
NCBI Accession #	NP_005197.3
NCBI GenBank Nucleotide #	NM_005206.4
UniProt Accession #	P46108; Q96GA9; Q96HJ0; A8MWE8; B0LPE8; D3DTH6
Molecular Weight	Observed: 42 kDa Predicted: 34 kDa
NCBI Official Full Name	adapter molecule crk isoform b
NCBI Official Synonym Full Names	CRK proto-oncogene, adaptor protein
NCBI Official Symbol	CRK
NCBI Official Synonym Symbols	p38; CRKII
NCBI Protein Information	adapter molecule crk
UniProt Protein Name	Adapter molecule crk
UniProt Gene Name	CRK

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