



# Crk II (phospho Tyr221) Monoclonal Antibody

<b>Catalog No</b>	BYmab-03551
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat;Monkey
<b>Applications</b>	WB
<b>Gene Name</b>	CRK
<b>Protein Name</b>	Adapter molecule crk
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human CrkII around the phosphorylation site of Tyr221. AA range:187-236
<b>Specificity</b>	Phospho-Crk II (Y221) Monoclonal Antibody detects endogenous levels of Crk II protein only when phosphorylated at Y221.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Monoclonal, Mouse,IgG
<b>Purification</b>	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	CRK; Adapter molecule crk; Proto-oncogene c-Crk; p38
<b>Observed Band</b>	40kD
<b>Cell Pathway</b>	Cytoplasm . Cell membrane . Translocated to the plasma membrane upon cell adhesion. .
<b>Tissue Specificity</b>	Embryonic lung,Epithelium,Eye,Lung,Placenta,
<b>Function</b>	domain: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.,domain:The SH2 domain mediates interaction with SHB.,function: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.,PTM: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

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down-regulation of the Crk signaling pathway.,PTM:P

## Background

This gene encodes a member of an adapter protein family that binds to several tyrosine-phosphorylated proteins. The product of this gene has several SH2 and SH3 domains (src-homology domains) and is involved in several signaling pathways, recruiting cytoplasmic proteins in the vicinity of tyrosine kinase through SH2-phosphotyrosine interaction. The N-terminal SH2 domain of this protein functions as a positive regulator of transformation whereas the C-terminal SH3 domain functions as a negative regulator of transformation. Two alternative transcripts encoding different isoforms with distinct biological activity have been described. [provided by RefSeq, Jul 2008],

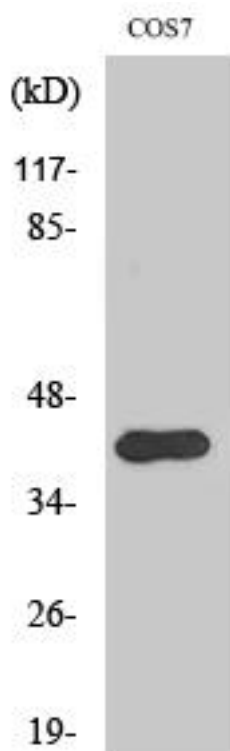
## matters needing attention

Avoid repeated freezing and thawing!

## Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of various cells using Crk II (phospho Tyr221) Monoclonal Antibody

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