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# CrkII Antibody

Store at -20C  
#3492

**For Research Use Only. Not for Use in Diagnostic Procedures.**

<b>Applications:</b> W	<b>Reactivity:</b> H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 42	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P46108	<b>Entrez-Gene Id:</b> 1398
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## Product Usage Information

### Application

Western Blotting

### Dilution

1:1000

## Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

## Specificity/Sensitivity

CrkII Antibody detects endogenous levels of CrkII protein. This antibody does not cross-react with related proteins.

## Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Trp169 of human CrkII protein. Antibodies are purified by protein A and peptide affinity chromatography.

## Background

CrkII, a cellular homologue of v-Crk, belongs to a family of adaptor proteins with an SH2-SH3-SH3 domain structure that transmits signals from tyrosine kinases (1). The primary function of Crk is to recruit cytoplasmic proteins in the vicinity of tyrosine kinases through SH2-phospho-tyrosine interaction. Thus, the output from Crk depends on the SH3-binding proteins, which include the C3G and Sos guanine nucleotide exchange proteins, Abl tyrosine kinase, DOCK180 and some STE20-related kinases. The variety of Crk-binding proteins indicates the pleiotropic function of Crk (2). The two CrkII SH3 domains are separated by a 54 amino acid linker region, which is highly conserved in Xenopus, chicken and mammalian CrkII proteins (3). Tyrosine 221 in this region is phosphorylated by the Abl tyrosine kinase (4), IGF-I receptor (5) and EGF receptor (6). Once Tyr221 is phosphorylated, CrkII undergoes a change in intramolecular folding and SH2-pTyr interaction, which causes rapid dissociation of CrkII from the tyrosine kinase complex (3).

## Background References

1. Zvara, A. et al. (2001) *Oncogene* 20, 951-961.
2. Kiyokawa, E. et al. (1997) *Crit. Rev. Oncog.* 8, 329-342.
3. Rosen, M.K. et al. (1995) *Nature* 374, 477-9.
4. Amoui, M. and Miller, W.T. (2000) *Cell. Signal.* 12, 637-643.
5. Koval, A. P. et al. (1998) *Biochem. J.* 330, 923-932.
6. Hashimoto, Y. et al. (1998) *J. Biol. Chem.* 273, 17186-17191.

## Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

## Western Blot Buffer

**IMPORTANT:** For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

## Applications Key

**W:** Western Blotting

## Cross-Reactivity Key

**H:** Human **M:** Mouse

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