

#3492 Store at -20°C

CrkII Antibody

✓ 100 µl (10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Entrez-Gene ID # 1398
Swiss-Prot Acc. # P46108

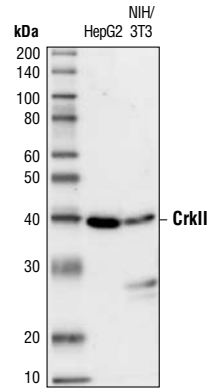
Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, M	42 kDa	Rabbit**

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). Tyr221 in this region is phosphorylated by the Abl tyrosine kinase (4), IGF-1 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).

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 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, S.K. et al. (1995) *Nature* 374, 477–479.
 - (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.



Western blot analysis of extracts from HepG2 cells (human hepatocellular carcinoma) and NIH/3T3 cells (mouse fibroblasts) using CrkII Antibody.

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.

*Species cross-reactivity is determined by western blot.
**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:
Western Blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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