10320 Camino Santa Fe, Suite G
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CRK Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1606a

Specification

CRK Antibody - Product Information

Application	**E, WB, IHC, IF, FC**
Primary Accession	P46108
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b**
Calculated MW	**42kDa KDa**

Description
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.

Immunogen
Purified recombinant fragment of human CRK expressed in E. Coli.

Formulation
Ascitic fluid containing 0.03% sodium azide.

CRK Antibody - Additional Information

Gene ID 1398

Other Names
Adapter molecule crk, Proto-oncogene c-Crk, p38, CRK

Dilution
E~~1/10000
WB~~1/500 - 1/2000
IHC~~1/200 - 1/1000
IF~~1/200 - 1/1000
FC~~1/200 - 1/400

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CRK Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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CRK Antibody - Protein Information

Name CRK

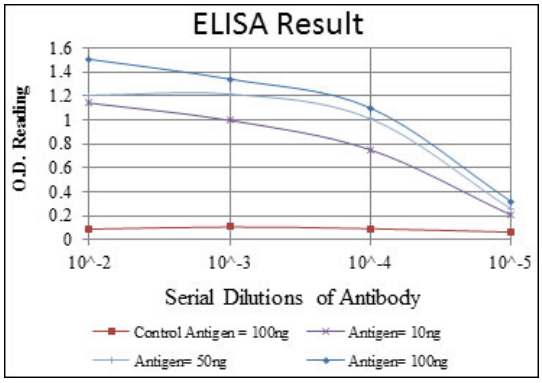
Function
Involved in cell branching and adhesion mediated by BCAR1- CRK-RAPGEF1 signaling and activation of RAP1.

Cellular Location
Cytoplasm. Cell membrane. Note=Translocated to the plasma membrane upon cell adhesion.

CRK Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture



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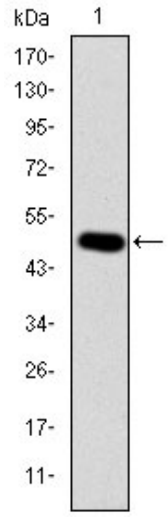


Figure 1: Western blot analysis using CRK mAb against human CRK (AA: 1-204) recombinant protein. (Expected MW is 48.4 kDa)

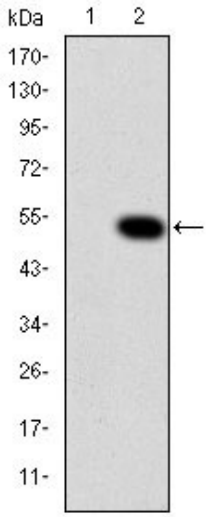


Figure 2: Western blot analysis using CRK mAb against HEK293 (1) and CRK(AA: 1-204)-hIgGFc transfected HEK293 (2) cell lysate.

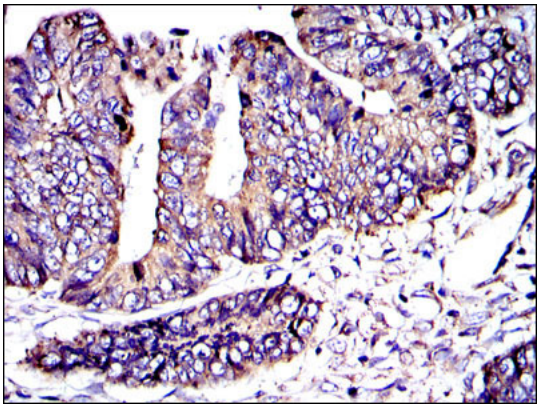


Figure 3: Immunohistochemical analysis of paraffin-embedded rectum cancer tissues using CRK mouse mAb with DAB staining.

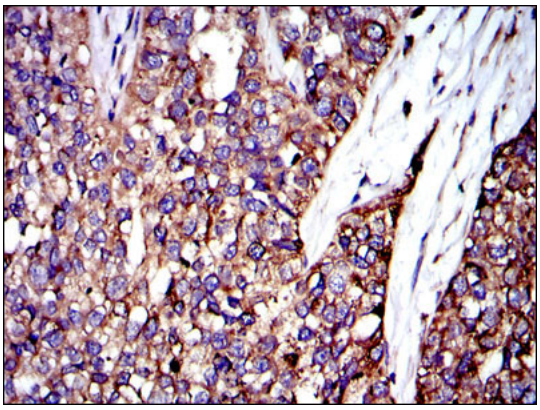


Figure 4: Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using CRK mouse mAb with DAB staining.

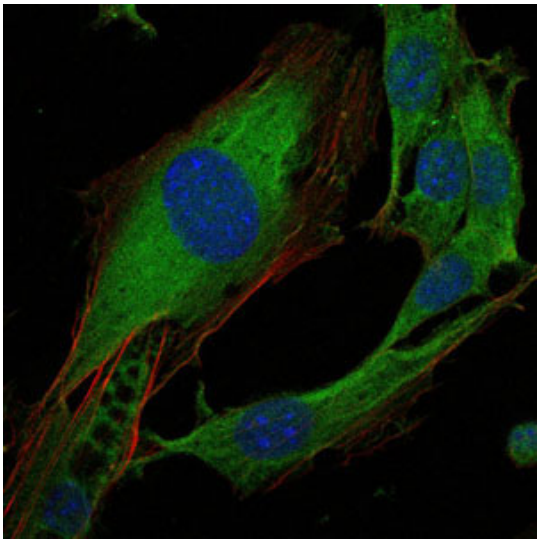


Figure 5: Immunofluorescence analysis of 3T3-L1 cells using CRK mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

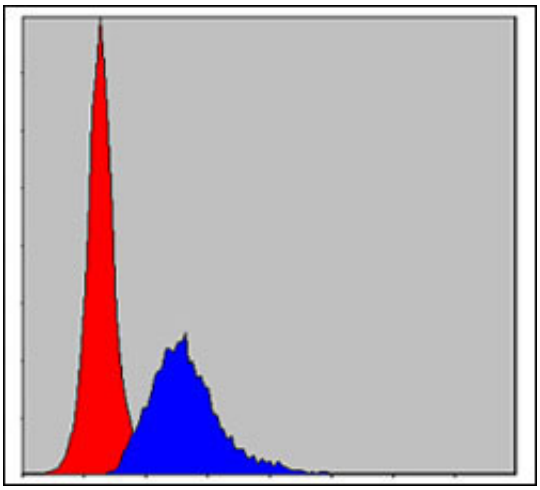


Figure 6: Flow cytometric analysis of MCF-7 cells using CRK mouse mAb (blue) and negative control (red).

CRK Antibody - References

1. Seikagaku. 2009 May;81(5):361-76. 2. Mol Cancer Res. 2009 Sep;7(9):1582-92.