Crk II Mouse mAb

CatalogNo: YM0167

Key Features

Host Species
- Mouse

Reactivity
- Human

Applications
- WB,IHC,IF,FC,ELISA

MW
- 34kD (Calculated)

Recommended Dilution Ratios

WB 1:500-1:2000
IHC 1:200-1:1000
IF 1:200-1:1000
Flow Cyt 1:200-1:400
ELISA 1:10000
Not yet tested in other applications.

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Monoclonal

Immunogen Information

Immunogen	Purified recombinant fragment of human Crk II expressed in E. Coli.
Specificity	Crk II Monoclonal Antibody detects endogenous levels of Crk II protein.

Target Information

Gene name CRK

Protein Name Adapter molecule crk

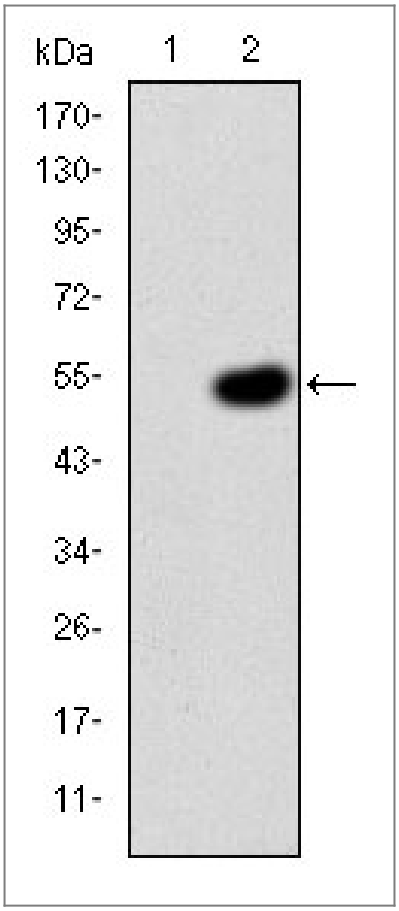
Organism	Gene ID	UniProt ID
Human	1398;	P46108;
Mouse	12928;	Q64010;

Cellular Localization Cytoplasm . Cell membrane . Translocated to the plasma membrane upon cell adhesion. .

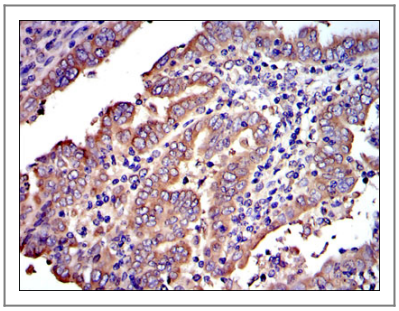
Tissue specificity Embryonic lung,Epithelium,Eye,Lung,Placenta,

Function 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 down-regulation of the Crk signaling pathway.,PTM:Phosphorylation of Crk-II (40 kDa) gives rise to a 42 kDa form.,similarity:Contains 1 SH2 domain.,similarity:Contains 1 SH3 domain.,similarity:Contains 2 SH3 domains.,subcellular location:Translocated to the plasma membrane upon cell adhesion.,subunit:Interacts with ABL1, C3G, SOS, MAP4K1, MAPK8 and DOCK3 via its first SH3 domain. Interacts with BCAR1, CBL, CBLB, PXN, IRS4 and GAB1 via its SH2 domain upon stimulus-induced tyrosine phosphorylation. Interacts with several tyrosine-phosphorylated growth factor receptors such as EGFR, PDGFR and INSR via its SH2 domain (By similarity). Interacts with DOCK1 and DOCK4. Interacts with SHB.,

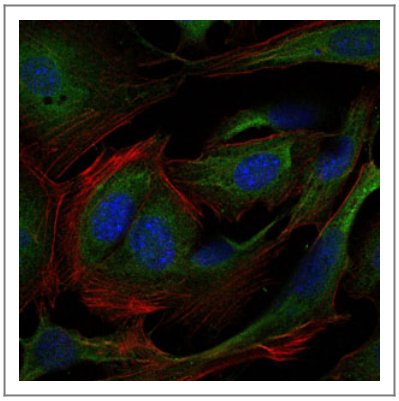
Validation Data



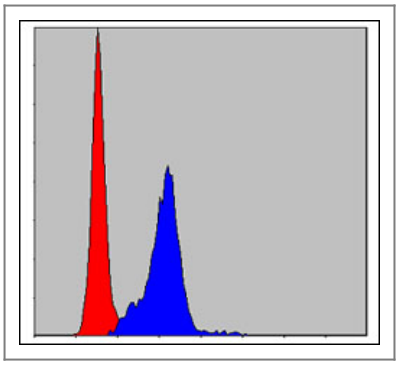
Western Blot analysis using Crk II Monoclonal Antibody against HEK293 (1) and CRK-hIgGFc transfected HEK293 (2) cell lysate.



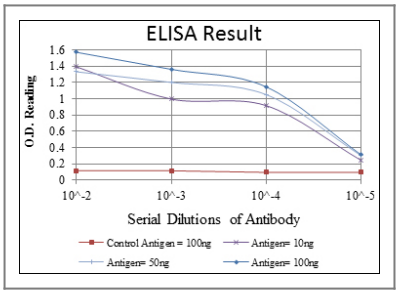
Immunohistochemistry analysis of paraffin-embedded intima cancer tissues with DAB staining using Crk II Monoclonal Antibody.



Immunofluorescence analysis of 3T3-L1 cells using Crk II Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of Hela cells using Crk II Monoclonal Antibody (blue) and negative control (red).



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Please scan the QR code to access additional product information:
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