abcam

Product datasheet

Anti-Crk p38 antibody [EP242Y] ab45136

Recombinant RabMAb

★★★★★ 1 Abreviews 2 References 3 Images

Overview

Product name	Anti-Crk p38 antibody [EP242Y]
Description	Rabbit monoclonal [EP242Y] to Crk p38
Host species	Rabbit
Tested applications	**Suitable for:** WB, ICC/IF, Flow Cyt (Intra) **Unsuitable for:** Flow Cyt or IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: K-562, C6, and NIH/3T3 whole cell lysates. ICC/IF: HepG2 cells. Flow Cyt (Intra): HeLa cells.
General notes	This product has switched from a hybridoma to recombinant production method on 9th June 2023. This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP242Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab45136 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ **(1)**	1/1000. Detects a band of approximately 37 kDa (predicted molecular weight: 34 kDa).
ICC/IF		1/50.
Flow Cyt (Intra)		1/50.

Application notes Is unsuitable for Flow Cyt or IP.

Target

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.

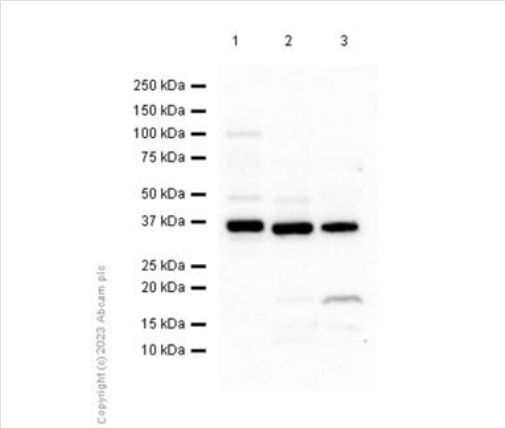
Sequence similarities Belongs to the CRK family.
Contains 1 SH2 domain.
Contains 2 SH3 domains.

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.
The SH2 domain mediates interaction with SHB.

Post-translational modifications Phosphorylation of Crk-II (40 kDa) gives rise to a 42 kDa form.
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.

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

Images



Western blot - Anti-Crk p38 antibody [EP242Y] (ab45136)

All lanes : Anti-Crk p38 antibody [EP242Y] (ab45136) at 1/1000 dilution

Lane 1 : K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate
Lane 2 : C6 (Rat glial tumor glial cell) whole cell lysate
Lane 3 : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate

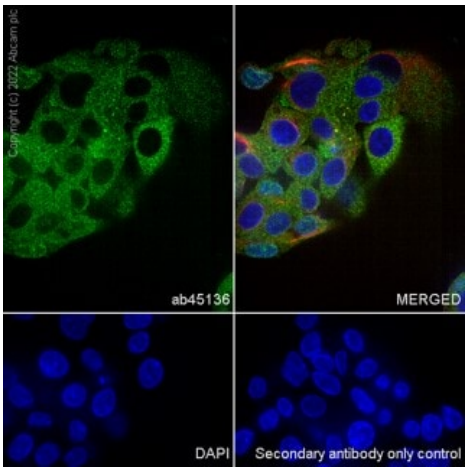
Lysates/proteins at 15 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 34 kDa
Observed band size: 37 kDa

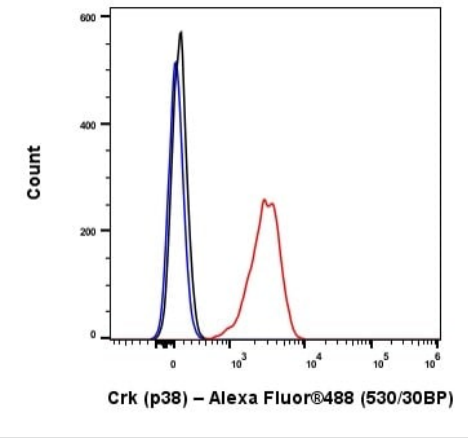
Exposure time: 40 seconds

Blocking and diluting buffer and concentration: 5% NFDM/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-Crk p38 antibody [EP242Y] (ab45136)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized HepG2 cells labelling Crk with ab45136 at 1/50 dilution. Confocal image showing cytoplasmic and membranous staining in subsets of HepG2 cells. **ab195889** AlexaFluor® 594-conjugated Anti-alpha Tubulin was used to counterstain tubulin at 1/200 dilution. The Nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is **ab150081** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Crk p38 antibody [EP242Y] (ab45136)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized HeLa cells labelling Crk with ab45136 at 1/50 dilution (Red) compared with an isotype control (Black) and an unlabelled control (Cell without incubation with primary antibody and secondary antibody (Blue)). A Goat Anti-Rabbit IgG (Alexa Fluor® 488, **ab150081**) was used as the secondary antibody.

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