9853 Pacific Heights Blvd.
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30-1445: Anti-MRCK alpha Polyclonal Antibody(Discontinued)

Clonality :	Polyclonal
Application :	WB, ICC
Reactivity :	Human
Gene :	CDC42BPA
Gene ID :	8476
Uniprot ID :	Q5VT25
Format :	Purified
Alternative Name :	CDC42BPA,KIAA0451
Isotype :	Rabbit IgG
Immunogen Information :	Peptide corresponding to the amino acids 1671-1685 of human MRCK alpha

Description

MRCK alpha (myotonic dystrophy kinase-related Cdc42-binding kinase alpha) is a member of the dystrophia myotonica protein kinase (DMPK) family that functions downstream of Cdc42 in actin cytoskeletal reorganization. It is a serine/threonine kinase with multiple functional domains, including phorbol ester-responsive C1 domain. Three independent coiled-coil domains and the N-terminal region preceding the kinase domain are responsible for intermolecular interactions leading to MRCK alpha multimerization. The transautophosphorylation process is critical for regulation of MRCK alpha catalytic activities. Binding of phorbol esters to MRCK releases its autoinhibition, allowing N-terminal dimerization and subsequent kinase activation.

Product Info

Amount :	0.1 mg
Purification :	Purified from rabbit serum by affinity chromatography
Storage condition :	Store at 2-8°C. Do not freeze.

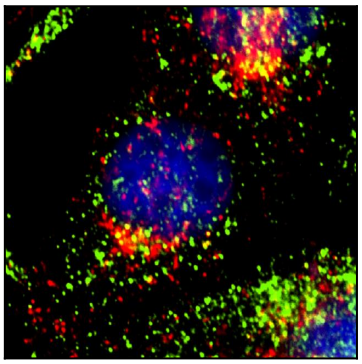

Figure 1: Colocalization between endogenous MRCK (red) and transferrin-Dyomics 547 (green) after 10 min. incubation of the cells (HeLa) with transferrin-Dyomics 547. Immunostaining with polyclonal anti-MRCK alpha.

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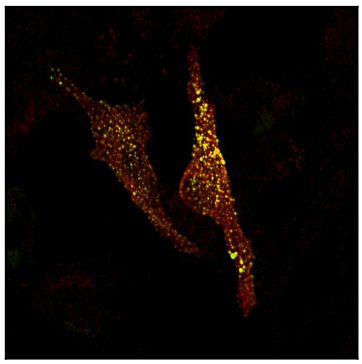

Figure 2: Colocalization between endogenous MRCK (red) and transfected MRCK-EGFP (green) HeLa cells. Immunostaining with polyclonal anti-MRCK alpha.