

### 30-1445: Anti-MRCK alpha Polyclonal Antibody(Discontinued)

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB, ICC
<b>Reactivity :</b>	Human
<b>Gene :</b>	CDC42BPA
<b>Gene ID :</b>	8476
<b>Uniprot ID :</b>	Q5VT25
<b>Format :</b>	Purified
<b>Alternative Name :</b>	CDC42BPA,KIAA0451
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	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 dystrophin myotonic 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

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

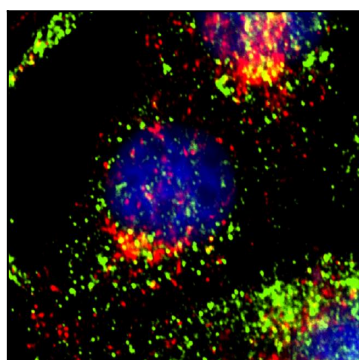


Figure 1: Colocalization between endogenous MRCK (red) and transferrin-Dyomics 547 (green) after 10 min. incubation of the cells (HeLa) with transferrin-Dyomics 547. Immunostaining with polyclonal anti-MRCK alpha.

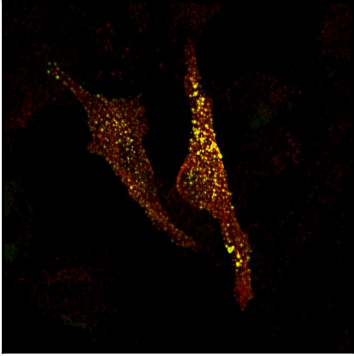


Figure 2: Colocalization between endogenous MRCK (red) and transfected MRCK-EGFP (green) HeLa cells. Immunostaining with polyclonal anti-MRCK alpha.