

# Product datasheet for TA385116

## RACK1 Rabbit Monoclonal Antibody [Clone ID: R02-1K6]

### **Product data:**

### Product Type: **Primary Antibodies Clone Name:** R02-1K6 IHC, WB **Applications:** Recommended Dilution: WB: 1/1000 IHC: 1/20 **Reactivity:** Human, Mouse, Rat Rabbit Host: Isotype: lgG Monoclonal **Clonality:** Immunogen: A synthetic peptide of human RACK1 Formulation: 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA Concentration: lot specific **Purification:** Affinity Purified **Conjugation:** Unconjugated Storage: Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. Stability: 1 year Predicted Protein Size: Calculated MW: 35 kDa; Observed MW: 35 kDa Gene Name: receptor for activated C kinase 1 Database Link: Entrez Gene 10399 Human P63244

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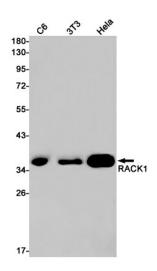
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### SACK1 Rabbit Monoclonal Antibody [Clone ID: R02-1K6] – TA385116

Background: Swiss-Prot Acc.P63244.Scaffolding protein involved in the recruitment, assembly and/or regulation of a variety of signaling molecules. Interacts with a wide variety of proteins and plays a role in many cellular processes. Component of the 40S ribosomal subunit involved in translational repression (PubMed:23636399). Involved in the initiation of the ribosome quality control (RQC), a pathway that takes place when a ribosome has stalled during translation, by promoting ubiquitination of a subset of 40S ribosomal subunits (PubMed:28132843). Binds to and stabilizes activated protein kinase C (PKC), increasing PKC-mediated phosphorylation. May recruit activated PKC to the ribosome, leading to phosphorylation of EIF6. Inhibits the activity of SRC kinases including SRC, LCK and YES1. Inhibits cell growth by prolonging the G0/G1 phase of the cell cycle. Enhances phosphorylation of BMAL1 by PRKCA and inhibits transcriptional activity of the BMAL1-CLOCK heterodimer. Facilitates ligand-independent nuclear translocation of AR following PKC activation, represses AR transactivation activity and is required for phosphorylation of AR by SRC. Modulates IGF1R-dependent integrin signaling and promotes cell spreading and contact with the extracellular matrix. Involved in PKCdependent translocation of ADAM12 to the cell membrane. Promotes the ubiquitination and proteasome-mediated degradation of proteins such as CLEC1B and HIF1A. Required for VANGL2 membrane localization, inhibits Wnt signaling, and regulates cellular polarization and oriented cell division during gastrulation. Required for PTK2/FAK1 phosphorylation and dephosphorylation. Regulates internalization of the muscarinic receptor CHRM2. Promotes apoptosis by increasing oligomerization of BAX and disrupting the interaction of BAX with the anti-apoptotic factor BCL2L. Inhibits TRPM6 channel activity. Regulates cell surface expression of some GPCRs such as TBXA2R. Plays a role in regulation of FLT1-mediated cell migration. Involved in the transport of ABCB4 from the Golgi to the apical bile canalicular membrane (PubMed:19674157). Promotes migration of breast carcinoma cells by binding to and activating RHOA (PubMed:20499158).

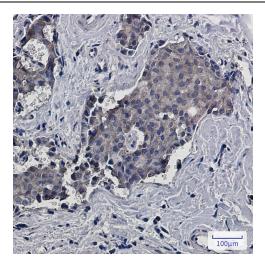
### **Product images:**



Western blot analysis of RACK1 in C6, 3T3, Hela lysates using RACK1 antibody.

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Immunohistochemistry analysis of paraffinembedded Human breast cancer using RACK1 antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

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