

**Product Name: RACK1 (2D18) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe16826**

---

## Summary

<b>Production Name</b>	RACK1 (2D18) Rabbit Monoclonal Antibody
<b>Description</b>	Rabbit Monoclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB
<b>Reactivity</b>	Human,Mouse,Rat

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Monoclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	RACK1
<b>Alternative Names</b>	H12.3; HLC-7; PIG21; RACK1; Gnb2-rs1;
<b>Gene ID</b>	10399.0
<b>SwissProt ID</b>	P63244.A synthetic peptide of human RACK1

## Application

<b>Dilution Ratio</b>	WB: 1:1000
<b>Molecular Weight</b>	35kDa

## Background

---

**Product Name: RACK1 (2D18) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe16826**

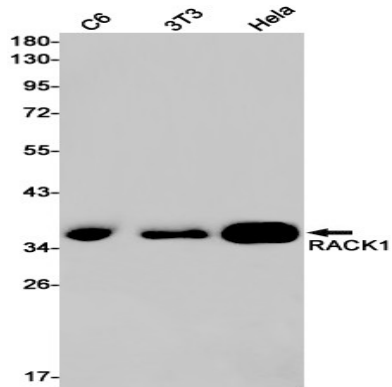
---

Seems to bind protein kinase C acting as an intracellular receptor to anchor the activated PKC to the cytoskeleton. May be involved in up-regulation of the activity of kinases such as PKC via binding to KRT1. 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:<a href="http://www.uniprot.org/citations/23636399" target="\_blank">23636399</a>). 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:<a href="http://www.uniprot.org/citations/28132843" target="\_blank">28132843</a>). 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 PKC-dependent 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:<a href="http://www.uniprot.org/citations/19674157" target="\_blank">19674157</a>). Promotes migration of breast carcinoma cells by binding to and activating RHOA (PubMed:<a href="http://www.uniprot.org/citations/20499158" target="\_blank">20499158</a>).

## Research Area

## Image Data

**Product Name: RACK1 (2D18) Rabbit Monoclonal Antibody**  
**Catalog #: AMRe16826**



Western blot detection of RACK1 in C6,3T3,HeLa cell lysates using RACK1 antibody(1:1000 diluted).

**Note**

For research use only.