

Product Name: KD-Validated RACK1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01717**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 35.1kDa

Antigen Information

Gene Name	RACK1 RACK1; Receptor For Activated C Kinase 1; GNB2L1; H12.3; Guanine Nucleotide Binding Protein (G Protein), Beta Polypeptide 2-Like 1; Guanine Nucleotide-Binding Protein Subunit Beta-Like Protein 12.3; Guanine Nucleotide-Binding Protein Subunit Beta-2-Like 1; Cell Proliferation-Inducing Gene 21 Protein ; Receptor Of Activated Protein C Kinase 1; Small
Alternative Names	Ribosomal Subunit Protein RACK1; Human Lung Cancer Oncogene 7 Protein ; Gnb2-Rs1; HLC-7; Protein Homologous To Chicken B Complex Protein, Guanine Nucleotide Binding; Guanine Nucleotide Binding Protein Beta Polypeptide 2-Like 1; Receptor Of Activated Protein Kinase C 1; Receptor For Activated C Kinase; Proliferation-Inducing Gene 21; Lung Cancer Oncogene 7; GNB2-RS1; PIG21
Gene ID	10399.0

SwissProt ID

P63244

Immunogen

A synthesized peptide derived from human RACK1

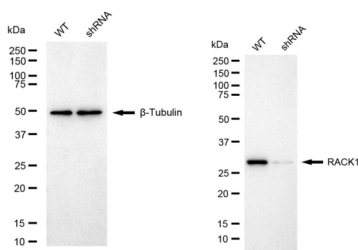
Background

Enables several functions, including cyclin binding activity; enzyme binding activity; and protein domain specific binding activity. Involved in several processes, including regulation of macromolecule metabolic process; regulation of signal transduction; and regulation of vesicle-mediated transport. Located in several cellular components, including midbody; perinuclear region of cytoplasm; and phagocytic cup. Part of IRE1-RACK1-PP2A complex. [provided by Alliance of Genome Resources, Apr 2025]

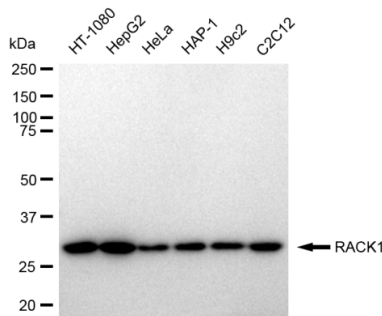
Research Area

Cell Biology,Signal Transduction

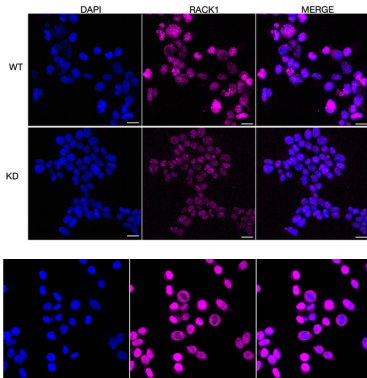
Image Data



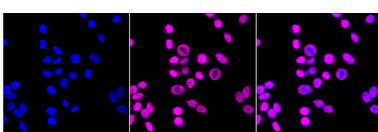
Western blotting analysis using RACK1 antibody (KVA01717). RACK1 expression in wild-type (WT) and RACK1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with RACK1 antibody (KVA01717, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



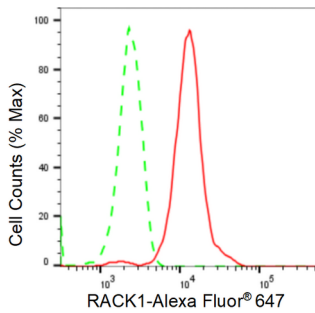
Western blotting analysis using RACK1 antibody (KVA01717). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with RACK1 antibody (KVA01717, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using RACK1 antibody (KVA01717, 1:1,000). Top panel: wild-type (WT); Bottom panel: RACK1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; RACK1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with RACK1 antibody (KVA01717, 1:1,000). Nuclei were stained blue with DAPI; RACK1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of RACK1 expression in HepG2 cells using RACK1 antibody (KVA01717, 1:2,000). Green, isotype control; red, RACK1.