

Store at -20C
#5432**RACK1 (D59D5) Rabbit mAb**

Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications: W, IP, IHC-P, eCLIP	Reactivity: H M R Mk Dm	Sensitivity: Endogenous	MW (kDa): 32	Source/Isotype: Rabbit IgG	UniProt ID: #P63244	Entrez-Gene Id: 10399
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)
eCLIP

Dilution

1:1000
1:50
1:400 - 1:1600
1:200

For more information about the RBP-eCLIP service please visit Eclipsebio.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #37124.

Specificity/Sensitivity

RACK1 (D59D5) Rabbit mAb recognizes endogenous levels of total RACK1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to central residues of human RACK1 protein.

Background

The highly conserved receptor for activated C kinase 1 (RACK1), homologous to the β subunit of heterotrimeric G-proteins, was originally identified through its binding of active PKC β II and other classical PKC isoforms (1). RACK1 is a scaffold protein that recruits PKC and a wide range of other proteins to specific subcellular locations, promoting the formation of multiprotein complexes to induce and integrate various signaling pathways (reviewed in 2). One example of this is its enhancement of PKC-dependent JNK activation (3). RACK1 protein also resides in the eukaryotic ribosome, suggesting the possibility that RACK1 participates in the assembly of signaling complexes that regulate translation as well (reviewed in 4). RACK1 binds the SH2 domain of Src, and phosphorylation of RACK1 by Src occurs at Tyr228 after PKC activation (5).

Background References

1. Ron, D. et al. (1994) *Proc Natl Acad Sci U S A* 91, 839-43.
2. López-Bergami, P. et al. (2005) *Mol Cell* 19, 309-20.
3. McCahill, A. et al. (2002) *Mol Pharmacol* 62, 1261-73.
4. Nilsson, J. et al. (2004) *EMBO Rep* 5, 1137-41.
5. Chang, B.Y. et al. (2002) *Oncogene* 21, 7619-29.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **eCLIP:** eCLIP

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey **Dm:** D. melanogaster

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