#2987 Store at -20°C

RANTES (R40) Antibody

☑ 100 µl
(10 western blots)

Orders ■ 877-616-CELL (2355)
orders@cellsignal.com
Support ■ 877-678-TECH (8324)
info@cellsignal.com
Web ■ www.cellsignal.com

rev. 08/24/10

Entrez-Gene ID #6352
Swiss-Prot Acc. #P13501

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Endogenous	H, (Mk)	10 kDa	Rabbit**

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. *Do not aliquot the antibody.*

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:
Western blotting 1:1000

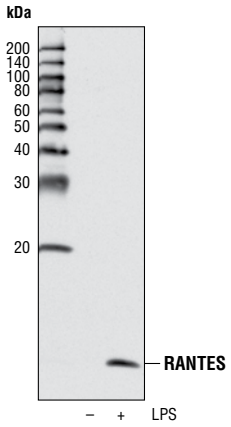
For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

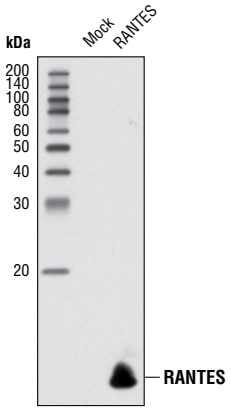
Background: RANTES/CCL5 (regulated upon activation, T cell expressed and secreted) is a member of the "C-C" or β family of chemokines that induce inflammation and are associated with a number of inflammatory disorders (1,2). RANTES is produced and secreted mainly by $CD8^+$ T cells, macrophages, and platelets, as well as epithelial cells, fibroblasts and some solid tumors (2-7). RANTES acts as a chemoattractant, or has other regulatory functions, on a number of cell types including monocytes, memory T cells, NK cells, eosinophils, basophils, dendritic cells, and mast cells (3, 7-9). Signaling by RANTES is mediated by several G-protein coupled receptors (GPCR), including CCR1, CCR3, CCR4 and CCR5.

Specificity/Sensitivity: RANTES (R40) Antibody detects endogenous levels of total human RANTES protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg40 of human RANTES. Antibodies were purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from differentiated THP-1 cells, untreated or treated overnight with LPS, using RANTES (R40) Antibody.



Western blot analysis of HeLa cells, mock transfected or transfected with human RANTES construct, using RANTES (R40) Antibody.

Background References:

(1) Schall, T.J. (1991) *Cytokine* 3, 165–83.
(2) Schall, T.J. et al. (1988) *J Immunol* 141, 1018–25.
(3) Kameyoshi, Y. et al. (1992) *J Exp Med* 176, 587–92.
(4) Rathanaswami, P. et al. (1993) *J Biol Chem* 268, 5834–9.
(5) Mattei, S. et al. (1994) *Int J Cancer* 56, 853–7.
(6) Stellato, C. et al. (1995) *J Immunol* 155, 410–8.
(7) Schall, T.J. et al. (1990) *Nature* 347, 669–71.
(8) Kuna, P. et al. (1992) *J Immunol* 149, 636–42.
(9) Mattoli, S. et al. (1995) *Biochem Biophys Res Commun* 209, 316–21.

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

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide

Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.