



NIH AIDS Reagent Program

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DATA SHEET

Reagent: Anti-Human CCL5/RANTES Polyclonal

Catalog Number: 3051

Lot Number: 130164

Provided: 100 µg of purified polyclonal antibody reconstituted in 100 µL PBS.
Endotoxin: less than 10 ng per 1 mg of the antibody as determined by the LAL method.

Host: Goat

Titer: The user should determine optimal concentration for any application.

Description: Polyclonal antibody targeting RANTES.

Special Characteristics: Isotype: Total goat IgG.
Specificity: Neutralizes the biological activity of recombinant human RANTES. Shows < 5% cross-reactivity with rmC-10. Based on direct ELISA results, this antibody shows less than 10% cross-reactivity with rmC10. Additionally, in direct ELISA, this antibody shows no cross-reactivity with other cytokines tested.
Neutralization of Human RANTES Bioactivity: The exact concentration of antibody required to neutralize rhRANTES activity is dependent on the cytokine concentration, cell type, growth conditions and the type of activity studied. For guideline purposes, R&D Systems has determined the neutralization dose for this antibody under a specific set of conditions. The ND50 for this antibody is defined as that concentration of antibody required to yield one-half maximal inhibition of the cytokine activity on a responsive cell line, when that cytokine is present at a concentration just high enough to elicit a maximum response. The ND50 for this lot of anti-human RANTES antibody was determined to be approximately 10 - 30 µg/ml in the presence of 0.2 µg/ml of rhRANTES, using the human monocyte chemotaxis assay. The specific conditions are described in the figure below and its legends.
Additional Applications: For direct ELISAs, the antibody can be used at 1 - 2 µg/ml with the appropriate secondary reagents to detect human RANTES. The detection limit for rhRANTES is approximately 0.8 ng/well.
For Western blot analysis, the antibody can be used at 1 - 2 µg/ml with the appropriate secondary reagents to detect human RANTES. The detection limit for rhRANTES is approximately 1ng/lane and 5 ng/lane under non-reducing and reducing conditions,

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

respectively. Because this antibody preparation is a total IgG fraction, complete monospecificity cannot be assumed.

Recommended Storage:

Keep at 4°C for short term storage and -80°C for long term storage. Avoid freeze-thaw cycles as reagent degradation may result.

Contributor:

NIAID, DAIDS (R&D Systems Cat# AB-278-NA)

NOTE:

Acknowledgement for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Anti-Human CCL5/RANTES Polyclonal."

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