

DESCRIPTION

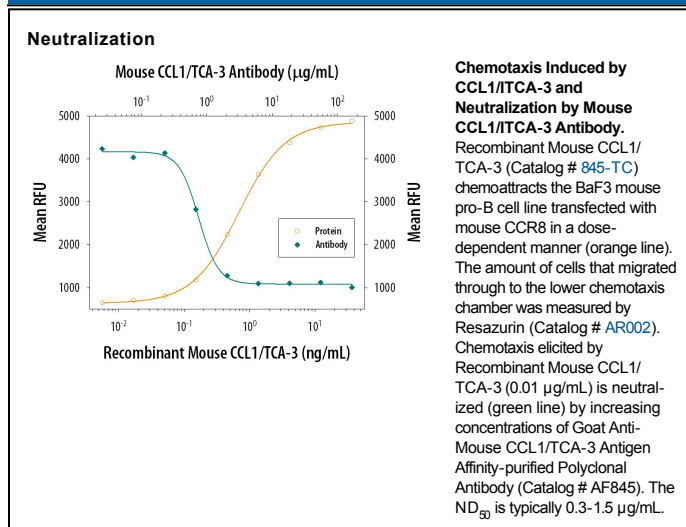
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|---------------------------|--|
| Species Reactivity | Mouse |
| Specificity | Detects mouse CCL1 in direct ELISAs and Western blots. In Western blots, approximately 10% cross-reactivity with recombinant human I-309 is observed and 2% cross-reactivity with recombinant mouse MCP-5 is observed. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant mouse CCL1/I-309/TCA-3 Lys24-Cys92 Accession # P10146 |
| Endotoxin Level | <0.10 EU per 1 µg of the antibody by the LAL method. |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|-----------------------|---------------------------|---|
| Western Blot | 0.1 µg/mL | Recombinant Mouse CCL1/I-309/TCA-3 (Catalog # 845-TC) |
| Neutralization | | Measured by its ability to neutralize CCL1/I-309/TCA-3-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with mouse CCR8. The Neutralization Dose (ND ₅₀) is typically 0.3-1.5 µg/mL in the presence of 0.01 µg/mL Recombinant Mouse CCL1/I-309/TCA-3. |

DATA



PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

Mouse TCA-3 is a member of the CC beta family of chemokines. The human chemokine I-309, which shares approximately 42% amino acid (aa) sequence identity, has been assumed to be the homologue of mouse TCA-3. Mouse TCA-3 and human I-309 also share significant sequence homology in the 5' flanking region of their genes and each contain an extra pair of cysteine residues not found in most other chemokines.

TCA-3 cDNA encodes a 92 aa residue precursor protein with a predicted 23 aa signal peptide that is cleaved to produce a 69 aa mature protein. The sequence of TCA-3 contains one potential N-linked glycosylation site. Mouse TCA-3 is found on the distal portion of mouse chromosome 11 in a cluster with MIP-1 α , MIP-1 β , and JE. TCA-3 acts by binding to the seven transmembrane spanning G-protein-coupled receptor, CCR8. TCA-3 has been shown to chemoattract T cells.

References:

1. Goya, I. *et al.* (1998) *J. Immunol.* **160**:1975.
2. Burd, P. *et al.* (1987) *J. Immunol.* **139**:3126.