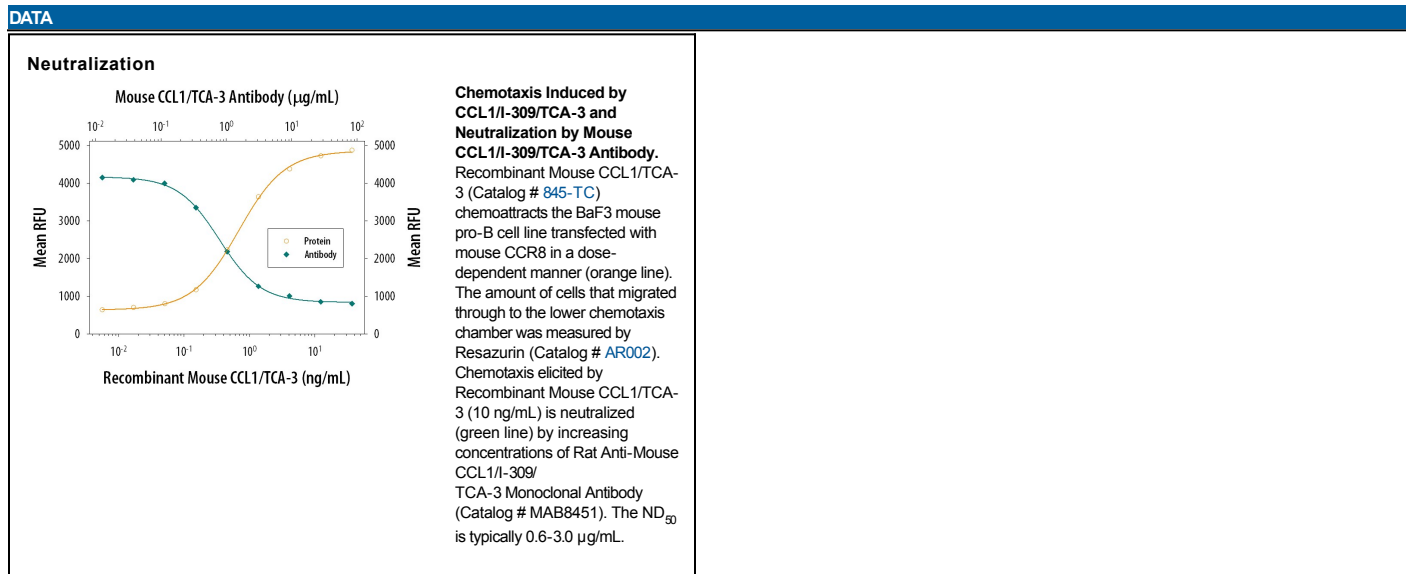


DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse CCL1/I-309/TCA-3 in ELISAs and Western blots. In sandwich immunoassays, no cross-reactivity or interference with recombinant human CCL1, recombinant mouse (rm) CCL17, rmCCL19 or rmCCL24 is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 148107
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-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. <i>General Protocols</i> are available in the <i>Technical Information</i> section on our website.	
Mouse CCL1/TCA-3 Sandwich Immunoassay	Reagent
ELISA Capture	2-8 µg/mL Mouse CCL1/I-309/TCA-3 Antibody (Catalog # MAB8451)
ELISA Detection	0.1-0.4 µg/mL Mouse CCL1/I-309/TCA-3 Biotinylated Antibody (Catalog # BAF845)
Standard	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 0.6-3.0 µg/mL in the presence of 10 ng/mL Recombinant Mouse CCL1/I-309/TCA-3.



PREPARATION AND STORAGE	
Reconstitution	Reconstitute at 0.5 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, designated CCL1. The human chemokine I-309, which shares approximately 42% amino acid (aa) sequence identity, is the orthologue 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 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.