

DESCRIPTION

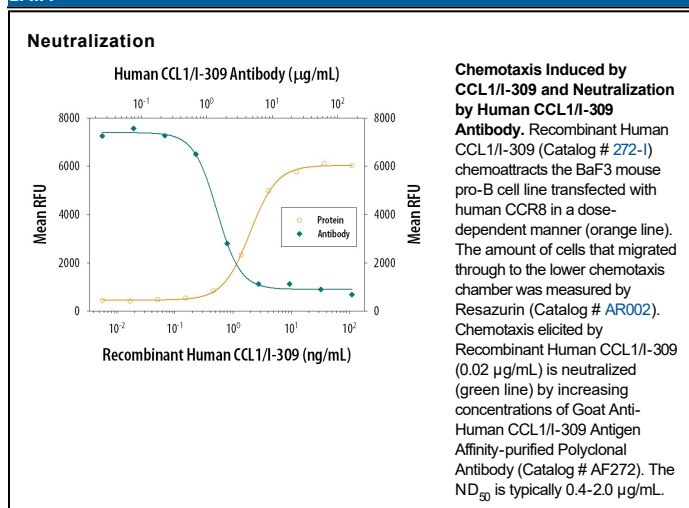
Species Reactivity	Human
Specificity	Detects human CCL1/I-309/TCA-3 in direct ELISAs and Western blots. Neutralizes the biological activity of recombinant human CCL1. Does not block the biological activity of recombinant mouse TCA-3.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human CCL1/I-309/TCA-3 Lys24-Lys96 Accession # P22362
Endotoxin Level	<0.15 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 either lyophilized or 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 Human CCL1/I-309/TCA-3 (Catalog # 272-1)
Neutralization	Measured by its ability to neutralize CCL1/I-309/TCA-3-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR8. The Neutralization Dose (ND ₅₀) is typically 0.4-2.0 µg/mL in the presence of 0.02 µg/mL Recombinant Human 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

Human CCL1 was initially identified by subtractive hybridization as a transcript that was present in a γ/δ T cell line but not in EBV-transformed B cells. Human CCL1 has been assumed to be a homologue of the mouse TCA3. While the two proteins share only approximately 42% amino acid sequence identity, both chemokines contain an extra pair of cysteine residues not found in most other chemokines. Human CCL1 and mouse TCA3 also share significant sequence homology in the 5' flanking region of their genes.

CCL1 cDNA encodes a 96 amino acid residue precursor protein with a hydrophobic signal peptide that is cleaved to yield a 73 amino acid residue mature protein. The CCL1 sequence contains one potential N-linked glycosylation site and natural CCL1 secreted by activated T cells is a glycoprotein doublet of 15-16 kDa. The amino acid sequence of CCL1 identified the protein as a member of the chemokine β subfamily.

References:

1. Miller, M.D. and M.S. Krangel (1992) Proc. Natl. Acad. Sci USA **89**:2950.
2. Miller, M.D. *et al.* (1990) J. Immunol. **145**:2737.