

## Product Information

### Anti-CCL17/TARC

produced in goat, affinity isolated antibody

Catalog Number **C1497**

#### Product Description

Anti-CCL17/TARC is produced in goat using as immunogen purified, *E. coli*-derived, recombinant human CCL-17. (GenelD: 6361). The antibody is purified using human CCL17 affinity chromatography.

Anti-CCL17/TARC recognizes human CCL17. Various immunochemical applications may be used including neutralization, ELISA, immunoblotting, and immunohistochemistry

CCL17 is a novel CC chemokine identified using a signal sequence trap method. CCL17 cDNA encodes a highly basic 94 amino acid residue precursor protein with a 23 amino acid residue signal peptide that is cleaved to generate the 71 amino acid residue mature secreted protein. Among CC chemokine family members, CCL17 has approx. 24-29% amino acid sequence identity with RANTES, MIP-1 $\alpha$ , MIP-1 $\beta$ , MCP-1, MCP-2, MCP-3, and I-309. The gene for human CCL17 has been mapped to chromosome 16q13 rather than chromosome 17 (where many of the human CC chemokine genes are clustered). CCL17 is constitutively expressed in thymus, and at a lower level in lung, colon, and small intestine. CCL17 is transiently expressed in stimulated peripheral blood mononuclear cells. Recombinant CCL17 is chemotactic for T cell lines but not monocytes or neutrophils. CCL17 is a specific functional ligand for CCR-4, a receptor that is selectively expressed on T cells.

#### Reagent

Supplied lyophilized from a 0.2  $\mu$ m filtered solution of phosphate buffered saline with 5% trehalose.

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Storage/Stability

Prior to reconstitution, store at  $-20^{\circ}\text{C}$ . Reconstituted product may be stored at  $2-8^{\circ}\text{C}$  for up to one month. For extended storage, freeze in working aliquots at  $-20^{\circ}\text{C}$ . Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended.

#### Preparation Instructions

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 0.1 mg/mL.

#### Product Profile

**Immunoblotting:** a working antibody concentration of 0.1-0.2  $\mu\text{g}/\text{mL}$  is recommended. The detection limit for recombinant human CCL-17 is  $\sim 5$  ng/lane under non-reducing and reducing conditions.

**Immunohistochemistry:** a working antibody concentration of 5-15  $\mu\text{g}/\text{mL}$  is recommended using paraffin-embedded tissue sections.

**Indirect ELISA:** a working antibody concentration of 0.5-1.0  $\mu\text{g}/\text{mL}$  is recommended. The detection limit for recombinant human CCL17 is  $\sim 0.1$  ng/well.

#### Neutralization:

The antibody has been selected for its ability to neutralize the biological activity of rhCCL17. The  $\text{ND}_{50}$  of the antibody was determined by the presence of 0.01  $\mu\text{g}/\text{mL}$  of rhCCL17, using human CCR4 transfected BaF/3 cells in a chemotaxis assay.

The  $\text{ND}_{50}$  is the concentration of antibody required to yield one-half maximal inhibition of the cytokine activity on a responsive cell line, when the cytokine is present at a concentration just high enough to elicit a maximum response.

The exact concentration of antibody required to neutralize human CCL17 activity is dependent on the cytokine concentration, cell type, growth conditions, and the type of activity studied.

**Note:** In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

**References**

1. Imai, T., et al., J. Biol. Chem.,. **272**, 15036-15042 (1997).
2. Imai, T., et al., J. Biol. Chem. **271**, 21514-21521 (1996).

3. Nomiya, H., et al., Genomics **40**, 211 – 213 (1997).

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