

DESCRIPTION	
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse CCL27/CTACK in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human CCL27/CTACK Leu26-Asn120 Accession # NP_035466
<b>Endotoxin Level</b>	<0.10 EU per 1 µg of the antibody by the LAL method.
<b>Formulation</b>	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		
<b>Please Note:</b> 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.		
	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.1 µg/mL	Recombinant Mouse CCL27/CTACK (Catalog # 725-CK)
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below
<b>Neutralization</b>	Measured by its ability to neutralize CCL27/CTACK-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with mouse CCR10. The Neutralization Dose (ND <sub>50</sub> ) is typically 10-20 µg/mL in the presence of 1 µg/mL Recombinant Mouse CCL27/CTACK.	

DATA	
<p><b>Neutralization</b></p> <p><b>Chemotaxis Induced by CCL27/CTACK and Neutralization by Mouse CCL27/CTACK Antibody.</b> Recombinant Mouse CCL27/CTACK (Catalog # 725-CK) chemo-attracts the BaF3 mouse pro-B cell line transfected with mouse CCR10 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Alamar blue staining. Chemotaxis elicited by Recombinant Mouse CCL27/CTACK (1 µg/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse CCL27/CTACK Antigen Affinity-purified Polyclonal Antibody (Catalog # AF725). The ND<sub>50</sub> is typically 10-20 µg/mL.</p>	<p><b>Immunohistochemistry</b></p> <p><b>CCL27/CTACK in Mouse Skin.</b> CCL27/CTACK was detected in perfusion fixed frozen sections of mouse skin using Goat Anti-Mouse CCL27/CTACK Antigen Affinity-purified Polyclonal Antibody (Catalog # AF725) at 1.7 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell &amp; Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). View our protocol for <a href="#">Chromogenic IHC Staining of Frozen Tissue Sections</a>.</p>

PREPARATION AND STORAGE	
<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

CCL27, also known as CTACK (cutaneous T cell-attracting chemokine), ALP, ILC, and ESkin, is a member of the CC family of chemokines (1). Mature mouse CCL27 is a 95 amino acid (aa) protein that shares 57% aa and 87% aa sequence identity with human and rat CCL27, respectively (2). It shares 18-31% aa sequence identity with other mouse CC chemokines. An alternately spliced form of mouse CCL27, known as PESKY, is localized to the nucleus and promotes cellular migration (3). CCL27 is constitutively expressed by keratinocytes and is upregulated by inflammatory stimuli and in wounded skin (4-7). CCL27 binds the chemokine receptor CCR10, glycosaminoglycans in the extracellular matrix, sulfated tyrosine residues on PSGL-1, and determinants on the surface of fibroblasts and endothelial cells (5, 7-9). CCL27 cooperates with CCL17/TARC in inducing the migration of cutaneous lymphocyte antigen (CLA) positive memory T cells to the skin during inflammation (4, 6, 10-12). Endothelial cell-bound CCL27 can mediate the adhesion of those cells to CLA<sup>+</sup> T cells (6). CCL27 also induces the migration of keratinocyte precursors from bone marrow to the skin, thereby promoting wound healing (7). In humans, serum CCL27 levels are elevated and correlate with disease severity in atopic dermatitis, psoriasis vulgaris, and mycosis fungoides (13-15).

**References:**

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