Human CCL27/CTACK Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: AF376

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human CCL27/CTACK in direct ELISAs and Western blots. In Western blots, less than 2% cross-reactivity with recombinant mouse CCL27/CTACK is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human CCL27/CTACK (R&D Systems, Catalog # 376-CT) Phe25-Gly112 Accession # Q9Y4X3
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.

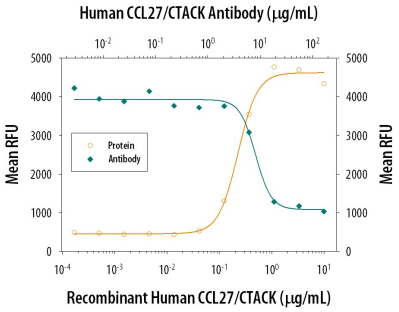
APPLICATIONS

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 Human CCL27/CTACK (Catalog # 376-CT)
Immunohistochemistry	5-15 µg/mL	See Below
Neutralization	Measured by its ability to neutralize CCL27/CTACK-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CCR10/GPR2. At 55 µg/mL, this antibody will neutralize > 70% of the chemotactic effect due to 1 µg/mL Recombinant Human CCL27/CTACK.	

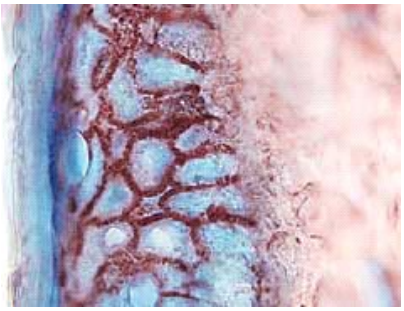
DATA

Neutralization



Chemotaxis Induced by CCL27/CTACK and Neutralization by Human CCL27/CTACK Antibody. Recombinant Human CCL27/CTACK (Catalog # 376-CT) chemoattracts the BaF3 mouse pro-B cell line transfected with human CCR10/GPR2 in a dose-dependent manner (orange line). The amount of cells that migrated through to the lower chemotaxis chamber was measured by Resazurin (Catalog # AR002). Chemotaxis elicited by Recombinant Human CCL27/CTACK (1 µg/mL) is neutralized (green line) by increasing concentrations of Human CCL27/CTACK Antigen Affinity-purified Polyclonal Antibody (Catalog # AF376). At 55 µg/mL, this antibody will neutralize > 70% of the chemotactic effect.

Immunohistochemistry



CCL27/CTACK in Human Skin. CCL27/CTACK was detected in immersion fixed frozen sections of human skin using Human CCL27/CTACK Antigen Affinity-purified Polyclonal Antibody (Catalog # AF376) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-AEC Cell & Tissue Staining Kit (red; Catalog # CTS009) and counterstained with hemotoxylin (blue). View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

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.** ● 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.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956

Human CCL27/CTACK Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF376

BACKGROUND

CCL27, also known as CTACK (cutaneous T cell-attracting chemokine), ALP, ILC, and ESkine, is a member of the CC family of chemokines. Mature human CCL27 is an 88 amino acid (aa) protein that shares 57% aa sequence identity with mouse and rat CCL27. It shares 11-35% aa sequence identity with other human CC chemokines. An alternately spliced form of mouse CCL27, known as PESKY, is localized to the nucleus and promotes cellular migration. CCL27 is constitutively expressed by keratinocytes and is upregulated by inflammatory stimuli and in wounded skin. 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. CCL27 cooperates with CCL17/TARC in inducing the migration of cutaneous lymphocyte antigen (CLA) positive memory T cells to the skin during inflammation. Endothelial cell-bound CCL27 can mediate the adhesion of those cells to CLA^+ T cells. CCL27 also induces the migration of keratinocyte precursors from bone marrow to the skin, thereby promoting wound healing. In humans, serum CCL27 levels are elevated and correlate with disease severity in atopic dermatitis, psoriasis vulgaris, and mycosis fungoides.

bio-techne
bio-techne.com
Global info@bio-techne.com techsupport@bio-techne.com
North America TEL 800 343 7475 Europe | Middle East | Africa TEL +44 (0)1235 529449
China info.cn@bio-techne.com TEL +86 (21) 52380373
Rest of World bio-techne.com/find-us/distributors TEL +1 612 379 2956