Mouse CCL27/CTACK Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: BAF725

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse CCL27/CTACK in ELISAs and Western blots. In sandwich immunoassays, less than 0.2% cross-reactivity with recombinant human CTACK, recombinant mouse (rm) MIP-3β, rmTECK, rmGDF-6, and rmFractalkine is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human CCL27/CTACK Leu26-Asn120 Accession # NP_035466
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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 Mouse CCL27/CTACK (Catalog # 725-CK)
Mouse CCL27/CTACK Sandwich Immunoassay		**Reagent**
ELISA Capture	2-8 µg/mL	Mouse CCL27/CTACK Antibody (Catalog # MAB725)
ELISA Detection	0.1-0.4 µg/mL	Mouse CCL27/CTACK Biotinylated Antibody (Catalog # BAF725)
Standard		Recombinant Mouse CCL27/CTACK (Catalog # 725-CK)

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.
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.

BACKGROUND

CCL27, also known as CTACK (cutaneous T cell-attracting chemokine), ALP, ILC, and ESkine, 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^+ 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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