

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects CXCL7/Thymus Chemokine-1 in direct ELISAs and Western blots. In direct ELISAs, approximately 25% cross-reactivity with recombinant rat CXCL7/Thymus Chemokine-1 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse CXCL7/Thymus Chemokine-1 Lys40-Tyr113 Accession # AAG36786
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.

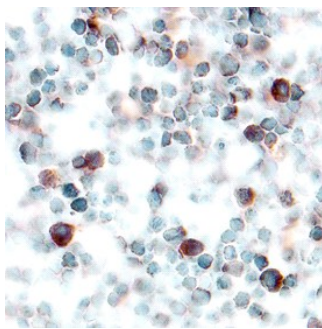
APPLICATIONS

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 Mouse CXCL7/Thymus Chemokine-1 (Catalog # 793-CK)
Immunohistochemistry	5-15 µg/mL	See Below
Neutralization	Measured by its ability to neutralize CXCL7/Thymus Chemokine-1-induced chemotaxis in the BaF3 mouse pro-B cell line transfected with human CXCR2. The Neutralization Dose (ND ₅₀) is typically 0.8-4 µg/mL in the presence of 40 ng/mL Recombinant Mouse CXCL7/Thymus Chemokine-1.	

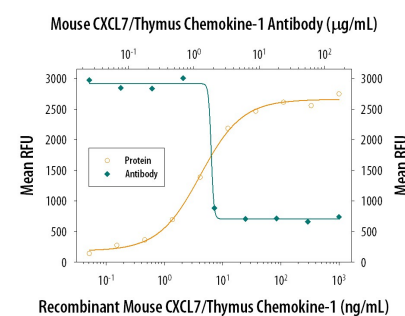
DATA

Immunohistochemistry



CXCL7/Thymus Chemokine-1 in Mouse Thymus. CXCL7/Thymus Chemokine-1 was detected in perfusion fixed frozen sections of mouse thymus using Goat Anti-Mouse CXCL7/Thymus Chemokine-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF793) at 5 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS008) and counterstained with hematoxylin (blue). Specific labeling was localized to the cytoplasm of lymphocytes. View our protocol for [Chromogenic IHC Staining of Frozen Tissue Sections](#).

Neutralization



Chemotaxis Induced by CXCL7/Thymus Chemokine-1 and Neutralization by Mouse CXCL7/Thymus Chemokine-1 Antibody. Recombinant Mouse CXCL7/Thymus Chemokine-1 (Catalog # 1091-CK) chemoattracts the BaF3 mouse pro-B cell line transfected with human CXCR2 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 Mouse CXCL7/Thymus Chemokine-1 (40 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse CXCL7/Thymus Chemokine-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF793). The ND₅₀ is typically 0.8-4 µg/mL.

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

CXCL7 is a member of the alpha (CXC) subfamily of chemokines. Mouse CXCL7 cDNA encodes a 113 amino acid residue precursor protein. Signal P prediction program analysis indicates that this precursor protein contains an amino terminal 39 amino acid residue signal peptide and a 74 amino acid mature chemokine. Mouse CXCL7 shares 72% amino acid sequence identity with rat CXCL7. The recombinant mouse CXCL7 produced by R&D Systems has been shown to chemoattract mouse BaF3 cells transfected with human CXCR2, but not human CXCR1.