

DESCRIPTION

Species Reactivity	Canine/Feline
Specificity	Detects canine and feline SCF/c-kit Ligand in direct ELISAs and Western blots. In direct ELISAs and Western blots, 50%-100% cross-reactivity with recombinant human (rh) SCF and recombinant mouse SCF is observed and no cross-reactivity with rhM-CSF is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 371907
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant canine SCF/c-kit Ligand Lys26-Ala190 Accession # Q06220
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 either lyophilized or 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	1 µg/mL	Recombinant Canine SCF/c-kit Ligand (Catalog # 2278-SC) Recombinant Feline SCF/c-kit Ligand (Catalog # 2268-SC)

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 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

SCF, also known as c-kit ligand, is a 28 kDa-40 kDa type I transmembrane (TM) glycoprotein that plays important roles in fetal and adult developmental processes. Endothelial cells, fibroblasts, and keratinocytes can express SCF. The 190 aa extracellular region contains a proteolytic cleavage site, generating 165 aa circulating monomers and noncovalent homodimers. Soluble feline and canine SCF share 93% aa identity with each other and 88%-92% aa identity with pig, cow, sheep, goat, horse, and mink SCF.