

## Product datasheet for **BM4117**

### SCF (KITLG) Mouse Monoclonal Antibody [Clone ID: hKL12]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	hKL12
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 0.15 µg/ml as a titer in ELISA against the recombinant antigen. Has been described to work in <b>Western blots</b> and <b>Immunohistochemistry</b> .
Reactivity:	Human, Primate
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human stem cell factor.
Specificity:	This Monoclonal antibody hKL12 is specific for Stem Cell Factor (hSCF). hKL12 is useful for the detection of hSCF in tissues, isolated cells and for studying biological effects of Human Stem Cell Factor <i>in vitro</i> . <b>Antigen distribution on Tissue sections:</b> Bone marrow stromal cells, fibroblasts, and fetal liver cells express SCF. Keratinocytes stain positive.
Formulation:	PBS, pH 7.2 containing 0.09% Sodium Azide as preservative State: Purified State: Lyophilized purified Ig fraction
Reconstitution Method:	Restore by adding 0.5 ml distilled water.
Concentration:	0.4 mg/ml (after reconstitution)
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	KIT ligand



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**Database Link:** [Entrez Gene 4254 Human P21583](#)

**Background:** SCF is a transmembrane protein expressed as two alternatively spliced isoforms, either 220 or 248 amino acids, the former lacking a peptidase cleavage site. The cleavage site is responsible for the release of the soluble form of the protein from the cell surface. The first 164 or 165 residues of the extracellular domain comprise soluble SCF, which exists in solution as a noncovalently linked homodimer. Alone, SCF is a weakly proliferative stimulus but acts synergistically with numerous cytokines. SCF is important in germ cell development, and an indispensable factor for mast cell proliferation and differentiation.

**Synonyms:** KITL, Kit ligand, c-Kit ligand, Stem cell factor, Mast cell growth factor, MGF

**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Melanogenesis, Pathways in cancer