

Datasheet: AAR44B

Description:	RABBIT ANTI RAT STEM CELL FACTOR:Biotin
Specificity:	STEM CELL FACTOR
Other names:	SCF
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			0.25 - 1.0ug/ml
Western Blotting	▪			0.1 - 0.2ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Rat
Product Form	Purified IgG conjugated to Biotin- lyophilised
Reconstitution	Reconstitute with 0.5ml sterile PBS containing 0.1% bovine serum albumin Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended.
Antiserum Preparation	Antiserum to rat SCF was raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Approx. Protein Concentrations	IgG concentration 0.1mg/ml after reconstitution

Immunogen Recombinant rat SCF.

External Database Links

UniProt:
[P21581](#) [Related reagents](#)

Entrez Gene:
[60427](#) Kitlg [Related reagents](#)

Synonyms Kitl, Mgf

Specificity **Rabbit anti Rat Stem Cell Factor antibody** specifically recognizes rat stem cell factor (SCF), a type I transmembrane protein and haematopoietic growth factor which acts in synergy with other growth factors, and signals through the receptor tyrosine kinase c-Kit (CD117).

The interaction between SCF and c-Kit regulates developmental and functional processes of haematopoietic progenitor cells, mast cells, melanocytes and germ cells, and plays an important role in follicular development. The interaction between SCF and c-Kit is associated with the progression and invasiveness of some tumours, including melanomas.

ELISA This biotinylated rat stem cell factor antibody may be used in an indirect ELISA or as a detection reagent in a sandwich ELISA with our [purified rat SCF antibody](#) (AAR44) as the capture antibody.

Storage Prior to reconstitution store at +4°C.
After reconstitution store at -20°C.
Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 12 months from date of reconstitution.

Health And Safety Information Material Safety Datasheet documentation #10294 available at:
10294: <https://www.bio-rad-antibodies.com/uploads/MSDS/10294.pdf>

Regulatory For research purposes only

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