# Datasheet: AAR44

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| **Description:** | RABBIT ANTI RAT STEM CELL FACTOR |
| **Specificity:** | STEM CELL FACTOR |
| **Other names:** | SCF |
| **Format:** | Purified |
| **Product Type:** | Polyclonal Antibody |
| **Isotype:** | Polyclonal IgG |
| **Quantity:** | 0.1 mg |

## 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 | ▪ | | | 0.5 - 2.0ug/ml |
| Western Blotting | ▪ | | | 0.1 - 0.2ug/ml |
| Functional Assays | ▪ | | | 0.08 - 0.12ug/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.

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| **Target Species** | Rat |
| **Product Form** | Purified IgG - lyophilised |
| **Reconstitution** | Reconstitute with 0.1ml distilled water<br>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 1.0mg/ml after reconstitution |

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| **Immunogen** | Recombinant rat SCF. |
| **External Database Links** | **UniProt:**<br>P21581 Related reagents<br><br>**Entrez Gene:**<br>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).<br><br>The interaction between SCF and c-Kit regulates developmental and functional processes of haematopoietic progenitor cells, mast cells, myelanocytes 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. |
| **Storage** | Prior to reconstitution store at +4ºC.<br>After reconstitution store at -20ºC.<br>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:<br>10294: https://www.bio-rad-antibodies.com/uploads/MSDS/10294.pdf |
| **Regulatory** | For research purposes only |

# Related Products

## Recommended Secondary Antibodies

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| Sheep Anti Rabbit IgG (STAR34...) | FITC |
| Sheep Anti Rabbit IgG (STAR35...) | RPE |
| Goat Anti Rabbit IgG (H/L) (STAR124...) | HRP |
| Goat Anti Rabbit IgG (Fc) (STAR121...) | Biotin, FITC, HRP |
| Sheep Anti Rabbit IgG (2AB02...) | Biotin |
| Sheep Anti Rabbit IgG (STAR36...) | DyLight®488, DyLight®549, DyLight®649, DyLight®680, DyLight®800 |

## Recommended Useful Reagents

TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)


**North & South America** Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com

**Worldwide** Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

**Europe** Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com


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