

Datasheet: AHP1210

Description:	GOAT ANTI HUMAN 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 (1)	▪			
ELISA	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml
Functional Assays	▪			0.008 - 0.012ug/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.

(1) This product requires enzyme mediated antigen retrieval prior to staining of paraffin sections. Proteinase K is recommended for this purpose. Successful heat mediated antigen retrieval has also been accomplished using Tris/EDTA buffer (pH9.0).

Target Species	Human
Product Form	Purified IgG - lyophilized
Reconstitution	Reconstitute with 0.1ml distilled water. For long term storage the addition of 0.09% sodium azide is recommended. NB: For functional studies do not add azide.

Antiserum Preparation Antisera to human stem cell factor were raised by repeated immunisations of goats with

highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution	Phosphate buffered saline
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Preservative Stabilisers	None present
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Carrier Free	Yes
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Approx. Protein Concentrations	IgG concentration 1.0mg/ml
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Immunogen	Recombinant human stem cell factor.
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External Database Links	UniProt: P21583 Related reagents Entrez Gene: 4254 KITLG Related reagents
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Synonyms	MGF, SCF
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RRID	AB_2131772
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Specificity	<p>Goat anti Human Stem Cell Factor antibody recognizes human 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 c-Kit receptor.</p> <p>Interaction between SCF and the receptor tyrosine kinase c-Kit is an essential step for the proliferation, survival and differentiation of haematopoietic progenitor cells, mast cells, melanocytes and germ cells, and plays an important role in follicular development. The association between SCF and c-Kit is also involved with the progression and invasiveness of tumours, and deficiencies of either SCF or c-Kit result in mast cell deficiency and macrocytic anaemia.</p>
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Further Reading	<ol style="list-style-type: none">1. O'laughlin-bunner, B. <i>et al.</i> (2001) Lyn is required for normal stem cell factor-induced proliferation and chemotaxis of primary hematopoietic cells. Blood. 98 (2): 343-50.2. Rönstrand, L. (2004) Signal transduction via the stem cell factor receptor/c-Kit. Cell Mol Life Sci. 61 (19-20): 2535-48.
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Storage	<p>Prior to reconstitution store at -20°C. After reconstitution store at -20°C.</p> <p>This product should be stored undiluted. Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
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Guarantee	12 months from date of despatch
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Health And Safety Information Material Safety Datasheet documentation #10294 available at:
<https://www.bio-rad-antibodies.com/SDS/AHP1210>
10294

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Goat IgG (Fc) (STAR122...) [FITC](#), [HRP](#)

Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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