

Datasheet: AHP794 BATCH NUMBER 163899

Description:	RABBIT ANTI HUMAN SDF-1 ALPHA
Specificity:	SDF-1 ALPHA
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	n our lab	oratories,	peer-reviewed publica	tions or personal								
	communications from the	originato	ors. Pleas	e refer to references ir	ndicated for further								
	information. For general p	protocol r	ecommer	ndations, please visit <u>w</u>	<u>/ww.bio-</u>								
	rad-antibodies.com/proto	cols.											
	Yes No Not Determined Suggested Dilution												
	Flow Cytometry			•									
	Immunohistology - Frozen			-									
	Immunohistology - Paraffin												
	(1)	•			0.5ug/ml								
	ELISA	-			0.5 - 2.0ug/ml								
	Immunoprecipitation												
	Western Blotting				0.1 - 0.2ug/ml								
	Functional Assays	-			2.0 - 4.0ug/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 antigen retrieval using heat treatment prior to staining of 												
								paraffin sections.Sodium citrate buffer pH 6.0 is recommended for this purpose.					
								paranin sections.soulu	in citrate	bullet p		eu for tills purpose.	
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 SDF-1α were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

Buffer Solution	Phosphate buffered saline	
Preservative Stabilisers	None present	
Carrier Free	Yes	
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml after reconstitution.	
Immunogen	<u>Recombinant human SDF-1α</u>	
External Database Links	UniProt: <u>P48061</u> <u>Related reagents</u> Entrez Gene: <u>6387</u> CXCL12 <u>Related reagents</u>	
Synonyms	SDF1, SDF1A, SDF1B	
RRID	AB_844597	
Specificity	 Rabbit anti Human SDF-1 alpha antibody recognizes human SDF-1 known as CXCL12a, a 68 amino acid stromal cell derived CXC chemo from alternative splicing of the SDF-1 gene. The two isoforms, SDF-1 abeta, share an identical amino acid sequence, except for an additional C-Terminal region of the beta isoform. SDF-1 binds with high-affinity to the G protein–coupled receptor CXCF as a chemoattractant for T and B lymphocytes, monocytes and migrate a vital factor in haematopoiesis and angiogenesis. By competitively bir SDF-1 acts as an inhibitor for the CXCR4-mediated entry of HIV-1 viru and the SDF-1-CXCR4 interaction is important for the regulation of trafand malignant stem cells. 	kine, which arises alpha and SDF-1 four residues in the R4 (fusin) and acts ory neurons, and is ading to CXCR4, s into target T-cells,
ELISA	This purified human SDF-1 α antibody may be used in an indirect ELIS reagent in a sandwich ELISA with our <u>biotinylated human SDF-1α anti</u> the detection reagent and <u>recombinant human SDF-1α (PHP122) as the second second</u>	<u>body</u> (AHP794B) as
Histology Positive Control Tissue	Human colorectal adenocarcinoma	
Western Blotting	This antibody may be used in Western Blotting under either reducing c conditions with <u>recombinant human SDF-1α</u> (PHP122) as the positive	-
References	1. Wuchter, P. <i>et al.</i> (2016) Microcavity arrays as an <i>in vitro</i> model systematrow niche for hematopoietic stem cells. <u>Cell Tissue Res. 364 (3): 5</u> 2. Song, J. <i>et al.</i> (2015) Focal MMP-2 and MMP-9 activity at the blood	<u>73-84.</u>

Further Reading	 Nagasawa, T. <i>et al.</i> (1998) A novel CXC chemokine PBSF/SDF-1 and its receptor CXCR4: their functions in development, hematopoiesis and HIV infection. <u>Semin Immu</u> <u>10 (3): 179-85.</u> Stumm, R. & Höllt, V. (2007) CXC chemokine receptor 4 regulates neuronal migratic and axonal pathfinding in the developing nervous system: implications for neuronal regeneration in the adult brain. <u>J Mol Endocrinol. 38 (3): 377-82.</u> Kucia, M. <i>et al.</i> (2005) Trafficking of normal stem cells and metastasis of cancer ster cells involve similar mechanisms: pivotal role of the SDF-1-CXCR4 axis. <u>Stem Cells. 2</u> (7): 879-94. 	HIV infection. <u>Semin Immunol.</u> regulates neuronal migration nplications for neuronal <u>7-82.</u> d metastasis of cancer stem	
Storage	Prior to reconstitution store at -20°C. After reconstitution store at -20°C. 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 us		
Guarantee	12 months from date of despatch		
Health And Safety Information	Material Safety Datasheet documentation #10294 available at: https://www.bio-rad-antibodies.com/SDS/AHP794 10294		
Regulatory	For research purposes only		

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)FITCGoat Anti Rabbit IgG (Fc) (STAR121...)Biotin, FITC, HRPSheep Anti Rabbit IgG (STAR35...)RPEGoat Anti Rabbit IgG (H/L) (STAR124...)HRP

Recommended Positive Controls

RECOMBINANT HUMAN SDF-1 ALPHA (PHP122)

Recommended Useful Reagents

RABBIT ANTI HUMAN SDF-1 ALPHA:Biotin (AHP794B) ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A) TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)

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	Email: antibody_sales_us@bio-ra	ad.com	Email: antibody_sales_uk@bio-ra	id.com	Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M402187:220718'

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