

## Datasheet: AAM64B

<b>Description:</b>	GOAT ANTI MOUSE SDF-1 ALPHA:Biotin
<b>Specificity:</b>	SDF-1 ALPHA
<b>Other names:</b>	CXCL12a
<b>Format:</b>	Biotin
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			0.25 - 1.0ug/ml
Immunoprecipitation			▪	
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.

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG conjugated to Biotin - lyophilised
<b>Reconstitution</b>	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.
<b>Antiserum Preparation</b>	Antiserum to mouse SDF-1 alpha were raised by repeated immunisation of goats with highly purified antigen. Purified IgG was prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Approx. Protein Concentrations</b>	IgG concentration 0.1mg/ml after reconstitution

**Immunogen** [Recombinant mouse SDF-1 alpha](#) expressed in *E. coli* (PMP77).

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**External Database**

**Links**

**UniProt:**

[P40224](#) [Related reagents](#)

**Entrez Gene:**

[20315](#) Cxcl12 [Related reagents](#)

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**Synonyms**

Sdf1

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**Specificity**

**Goat anti Mouse SDF-1 alpha antibody** recognizes mouse SDF-1 alpha, otherwise known as CXCL12a, a stromal cell derived CXC chemokine which, together with SDF-1 beta, arises from alternative splicing of the SDF-1 gene, and acts as a chemoattractant for T and B lymphocytes, monocytes and migratory neurons.

SDF-1 binds with high-affinity to the G protein-coupled receptor CXCR4 (fusin), and acts as an inhibitor of the CXCR4-mediated entry of HIV-1 virus into target T-cells.

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**ELISA**

This antibody may be used in an indirect ELISA or as a detection reagent in a sandwich ELISA with [AAM64](#) as the capture antibody and [PMP77](#) as the standard.

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**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.

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**Shelf Life**

12 months from date of reconstitution.

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**Health And Safety Information**

Material Safety Datasheet Documentation #10162 available at: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

STREPTAVIDIN (STAR119...) [APC](#)

**North & South America**

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Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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