

## Datasheet: STAR4A

<b>Description:</b>	STREPTAVIDIN:RPE
<b>Name:</b>	STREPTAVIDIN
<b>Format:</b>	RPE
<b>Product Type:</b>	Accessory Reagent
<b>Quantity:</b>	1 ml

### 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	▪			Neat

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 antibody for use in their own system using appropriate negative/positive controls.

<b>Product Form</b>	Streptavidin conjugated to R-Phycoerythrin - lyophilized		
<b>Reconstitution</b>	Reconstitute with 1ml distilled water		
<b>Max Ex/Em</b>	<b>Fluorophore</b>	<b>Excitation Max (nm)</b>	<b>Emission Max (nm)</b>
	RPE 488nm laser	496	578

#### Preparation

Pure Streptavidin is reacted with Succinimidyl 4- (N-maleimido-methyl) cyclohexane - 1-carboxylate (SMCC). R. Phycoerythrin is reacted with N-succinimidyl 3-(2 - pyridyldithio) propionate (SPDP) and activated by reduction with dithiothreitol. The two substituted proteins are reacted together to give covalent conjugates, which are selected by medium pressure liquid chromatography on gel filtration columns of AcA34 ultrogel.

STAR4A conjugates show negligible non-specific binding to non-biotinylated macromolecules, and therefore gives very low backgrounds.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide
<b>Stabilisers</b>	1% Bovine Serum Albumin

**Flow Cytometry** Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.

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- References**
1. van den Nieuwenhof, I.M. *et al.* (2001) Differential galactosylation of neuronal and haematopoietic signal regulatory protein-alpha determines its cellular binding-specificity. [J Cell Sci. 114 \(Pt 7\): 1321-9.](#)
  2. Tasker, L. & Marshall-Clarke, S. (1997) Immature B cells from neonatal mice show a selective inability to up-regulate MHC class II expression in response to antigen receptor ligation. [Int Immunol. 9 \(4\): 475-84.](#)
  3. Dioszeghy, V. *et al.* (2008) 12/15-Lipoxygenase regulates the inflammatory response to bacterial products *in vivo*. [J Immunol. 181: 6514-24.](#)
  4. Guesdon, F. *et al.* (2012) Expression of a glycosylphosphatidylinositol-anchored ligand, growth hormone, blocks receptor signalling. [Biosci Rep. 32 \(6\): 653-60.](#)
  5. Nguyen, J. *et al.* (2021) Quantitative contributions of TNF receptor superfamily members to CD8<sup>+</sup> T-cell responses. [Mol Syst Biol. 17 \(11\): e10560.](#)
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**Storage** Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10224 available at: <https://www.bio-rad-antibodies.com/SDS/STAR4A10224>

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**Regulatory** For research purposes only

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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](https://www.bio-rad-antibodies.com/datasheets)

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