

## Datasheet: 12005867

<b>Description:</b>	GOAT ANTI-MOUSE IgG StarBright™ Blue 520
<b>Specificity:</b>	IgG
<b>Format:</b>	StarBright Blue 520
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	80 µl

## 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		▪		
Western Blotting	▪			1/2,500 - 1/5,000

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.

### Target Species

Mouse

### Product Form

Purified IgG conjugated to StarBright Blue 520 - lyophilized

### Reconstitution

Resuspend contents of the tube in the indicated volume of distilled or deionized water and leave on ice for at least 30 min prior to use. Brief centrifugation (pulse spin for 2-3 sec at max speed in a tabletop microcentrifuge) may be used to collect the contents at the bottom of the tube. Do not centrifuge more than 10 sec.

Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	StarBright Blue 520	488	520

**Antiserum Preparation** Antiserum to Mouse IgG was raised by repeated immunisation of Goats with highly purified antigen.

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

>80% Sucrose  
<1% Polyethylene Glycol

<0.04% 2-Methyl-2H-Isothiazol-3-One  
<10% Bovine Serum Albumin

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**Product Information** The StarBright Blue 520 Fluorophore is an ultra-sensitive polymer-based fluorophore with an excitation maximum at 488 nm and emission maximum at 520 nm. The StarBright Fluorophore is made up of multiple light-absorbing and -emitting monomers which provide an exceptionally bright signal compared to most traditional fluorophores.

StarBright Blue 520 Conjugated Goat Anti-Mouse and Goat Anti-Rabbit Fluorescent Secondary Antibodies are ideal for fluorescent western blotting — either for the detection of a single-target protein or for multiplex detection of several proteins on one blot, without stripping and reprobing. StarBright Blue 520 Fluorescent Secondary Antibodies can be used with far-red emission StarBright Blue 700 Antibodies as well as traditional fluorescent detection reagents like Alexa Fluor and DyLight Conjugated Antibodies. In addition, StarBright Antibodies can be used with Bio-Rad's stain-free technology and/or with hFAB™ Rhodamine Anti-Housekeeping Primary Antibodies for protein normalization. These antibodies are optimized for use with the ChemiDoc™ MP Imaging System, permitting detection of up to three proteins in a single blot.

### Features and Benefits

**Easy multiplexing** — can be used with traditional fluorescent antibodies or with Bio-Rad's StarBright Blue 700 Fluorescent Secondary Antibodies to detect multiple proteins on the same blot

**High sensitivity** — StarBright Blue 520 Fluorescent Secondary Antibodies (Exmax/Emmax = 488 nm/520 nm) have 2–4 fold higher sensitivity compared to traditional green emitters like Alexa Fluor 488 or DyLight 488 Antibodies

**Short exposure time** — the exceptional brightness of the StarBright Fluorophore leads to shorter exposure times compared to traditional fluorescent dyes: seconds vs. minutes

**Low nonspecific binding** — conjugated to highly cross-adsorbed antibodies

Goat Anti-Mouse IgG StarBright Blue 520 has been cross-adsorbed against bovine, goat, human, rabbit and rat.

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**Western Blotting** StarBright Blue 520 Fluorescent Secondary Antibodies can be used for multiplex fluorescent western blotting with Bio-Rad's ultra-sensitive near IR StarBright Blue 700 Antibodies and the hFAB Rhodamine Anti-Housekeeping Antibodies.  
**Note:** StarBright Antibodies are not suitable for stripping and reprobing.

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**Instructions For Use** Instructions for use can be found at [www.bio-rad-antibodies.com/uploads/IFU/12005866.pdf](http://www.bio-rad-antibodies.com/uploads/IFU/12005866.pdf)

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**References**

1. Kumar, S. *et al.* (2021) Induction of autophagy mitigates TDP-43 pathology and translational repression of neurofilament mRNAs in mouse models of ALS/FTD. [Mol Neurodegener. 16 \(1\): 1.](#)
2. Wu, H. *et al.* (2021) microRNA-27a-3p but Not -5p Is a Crucial Mediator of Human Adipogenesis. [Cells. 10 \(11\): 3205.](#)
3. Riera-Tur, I. *et al.* (2022) Amyloid-like aggregating proteins cause lysosomal defects in

neurons via gain-of-function toxicity. [Life Sci Alliance. 5\(3\):e202101185.](#)

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**Storage** 1 year at -20°C lyophilized; 6 months in the dark at +4°C after resuspension.  
This product is photosensitive and should be protected from light  
**DO NOT FREEZE the solubilized material**

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**Guarantee** Guaranteed until date of expiry. Please see product label.

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**Health And Safety Information** Material Safety Datasheet documentation #12005866 available at:  
12005866: <https://www.bio-rad-antibodies.com/uploads/MSDS/12005866.pdf>

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**Regulatory** For research purposes only

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