

Datasheet: 12005866

Description:	GOAT ANTI-MOUSE IgG StarBright™ Blue 520
Specificity:	IgG
Format:	StarBright Blue 520
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	400 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.

	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 >80% Sucrose
Stabilisers <1% Polyethylene Glycol

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

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.

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.

Instructions For Use Instructions for use can be found at www.bio-rad-antibodies.com/uploads/IFU/12005866.pdf

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.](#)
4. Walter, M. *et al.* (2023) NUDT22 promotes cancer growth through pyrimidine salvage. [Oncogene. Mar 04 \[Epub ahead of print\].](#)
5. Ferreira-Santos, L. *et al.* (2023) Neuraminidase-induced externalization of phosphatidylserine activates ADAM17 and impairs insulin signaling in endothelial cells. [Am J Physiol Heart Circ Physiol. Nov 24 \[Epub ahead of print\].](#)
6. Chae, S.A. *et al.* (2023) Exercise enhances placental labyrinth trophoblast development by activation of PGC-1 α and FNDC5/irisin. [Biol Reprod. Nov 2 :load151. \[Epub ahead of print\].](#)
7. Anoud, M. *et al.* (2024) Comparative transcriptomics reveal a novel tardigrade-specific DNA-binding protein induced in response to ionizing radiation. [Elife. 13: RP92621.](#)
8. Brar, K.K. *et al.* (2024) PERK-ATAD3A interaction provides a subcellular safe haven for protein synthesis during ER stress. [Science. 385 \(6712\): eadp7114.](#)
9. Hartmann, J. *et al.* (2024) SKA2 enhances stress-related glucocorticoid receptor signaling through FKBP4-FKBP5 interactions in neurons. [Proc Natl Acad Sci U S A. 121 \(52\): e2417728121.](#)

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
Guarantee	Guaranteed until date of expiry. Please see product label.
Health And Safety Information	Material Safety Datasheet documentation #12005866 available at: https://www.bio-rad-antibodies.com/SDS/12005866 12005866
Regulatory	For research purposes only

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 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](https://www.bio-rad-antibodies.com/datasheets)
'M378905:210311'

Printed on 12 Jun 2025