

Datasheet: 12004162

Description:	GOAT ANTI-RABBIT IgG StarBright™ Blue 700
Specificity:	IgG
Format:	StarBright Blue 700
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	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	Rabbit		
Product Form	Purified IgG conjugated to StarBright Blue 700 - 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 700	470	700
Antiserum Preparation	Antiserum to Rabbit 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 StarBright Blue 700 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. The StarBright Fluorophore is composed of a condensed polymer made up of multiple light-absorbing and -emitting monomers which provides an exceptionally bright signal (high quantum yield) compared to most traditional fluorophores.

StarBright Blue 700 Fluorescent Secondary Antibodies can be used with traditional fluorophores like the DyLight 800 Fluorophore for multiplexing. In addition, StarBright Antibodies can be used with Bio-Rad's stain-free technology and/or the 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 — StarBright Secondary Antibodies can be used with IRDye 800 or other common fluorophores to detect multiple proteins on the same blot

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

High signal-to-noise ratio — StarBright Secondary Antibodies emit in the red/far red, where there is minimal background ($Ex_{max}/Em_{max} = 470\text{ nm}/700\text{ nm}$)

Low nonspecific binding — StarBright Fluorophore is conjugated to highly cross-adsorbed antibodies

Goat Anti-Rabbit IgG StarBright Blue 700 has been cross-adsorbed against bovine, goat, human, mouse and rat.

Western Blotting StarBright Blue 700 Secondary Antibodies can be used for multiplex fluorescent western blotting with the right combination of fluorophores. These fluorescent secondary antibodies can also be used to detect post-translational modifications like phosphorylation of a target protein.

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/12004157.pdf

References

1. Li, T. *et al.* (2021) RNF167 activates mTORC1 and promotes tumorigenesis by targeting CASTOR1 for ubiquitination and degradation. [Nat Commun. 12 \(1\): 1055.](#)
2. Vasileva, L.V. *et al.* (2021) Rosmarinic acid attenuates obesity and obesity-related inflammation in human adipocytes. [Food Chem Toxicol. 149: 112002.](#)
3. Dunbar, K. *et al.* (2021) IMiDs induce FAM83F degradation via an interaction with CK1 α to attenuate Wnt signalling. [Life Sci Alliance. 4 \(2\)Dec 23 \[Epub ahead of print\].](#)
4. Dunbar, K. *et al.* (2021) FAM83F regulates canonical Wnt signalling through an interaction with CK1 α . [Life Sci Alliance. 4 \(2\)Dec 24 \[Epub ahead of print\].](#)

5. Holoch, D. *et al.* (2021) A cis-acting mechanism mediates transcriptional memory at Polycomb target genes in mammals. [Nat Genet. 53 \(12\): 1686-1697.](#)
6. Goad, D.W. *et al.* (2021) Acquired chemoresistance can lead to increased resistance of pancreatic cancer cells to oncolytic vesicular stomatitis virus [Molecular Therapy - Oncolytics. Dec 01 \[Epub ahead of print\].](#)
7. Reisman, B.J. *et al.* (2021) Apoptolidin family glycomacrolides target leukemia through inhibition of ATP synthase. [Nat Chem Biol. Dec 02 \[Epub ahead of print\].](#)
8. Riera-Tur, I. *et al.* (2022) Amyloid-like aggregating proteins cause lysosomal defects in neurons via gain-of-function toxicity. [Life Sci Alliance. 5 \(3\)Dec 21 \[Epub ahead of print\].](#)
9. Meissner, M.E. *et al.* (2022) Differential Activity of APOBEC3F, APOBEC3G, and APOBEC3H in the Restriction of HIV-2. [J Mol Biol. 434 \(2\): 167355.](#)
10. Nowicka, N. *et al.* (2022) The Involvement of RAGE and Its Ligands during Progression of ALS in SOD1 G93A Transgenic Mice. [Int J Mol Sci. 23 \(4\): 2184'](#)
11. Hu, X. *et al.* (2022) MiR-302d inhibits TGFB-induced EMT and promotes MET in primary human RPE cells. [PLoS One. 17 \(11\): e0278158.](#)
12. Zuniga, O. *et al.* (2022) Discovery of the inhibitor of DNA binding 1 as a novel marker for radioresistance in pancreatic cancer using genome-wide RNA-seq [Cancer Drug Resistance. 5: 926-38.](#)
13. Walter, M. *et al.* (2023) NUDT22 promotes cancer growth through pyrimidine salvage. [Oncogene. Mar 04 \[Epub ahead of print\].](#)

Storage	1 year at -20°C lyophilized; 6 months 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 #12004160 available at: https://www.bio-rad-antibodies.com/SDS/12004162 12004160 Material Safety Datasheet documentation #12004160 available at https://www.bio-rad-antibodies.com/uploads/MSDS/12004160.pdf
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

- [GOAT ANTI-MOUSE IgG StarBright™ Blue 700 \(12004158\)](#)
- [GOAT ANTI-MOUSE IgG StarBright™ Blue 700 \(12004159\)](#)
- [ANTI-ACTIN hFAB™ RHODAMINE ANTIBODY \(12004163\)](#)
- [ANTI-ACTIN hFAB™ RHODAMINE ANTIBODY \(12004164\)](#)
- [ANTI-TUBULIN hFAB™ RHODAMINE ANTIBODY \(12004165\)](#)
- [ANTI-TUBULIN hFAB™ RHODAMINE ANTIBODY \(12004166\)](#)
- [ANTI-GAPDH hFAB™ RHODAMINE ANTIBODY \(12004167\)](#)
- [ANTI-GAPDH hFAB™ RHODAMINE ANTIBODY \(12004168\)](#)
- [GOAT ANTI MOUSE IgG \(H/L\):DyLight®800 \(MULTI SPECIES ADSORBED\) \(STAR117D800GA\)](#)

North & South Tel: +1 800 265 7376

Worldwide

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21

To

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

find a

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

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

'M374469:201106'

Printed on 25 Mar 2023

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)