

## Datasheet: 12004159

<b>Description:</b>	GOAT ANTI-MOUSE IgG StarBright™ Blue 700
<b>Specificity:</b>	IgG
<b>Format:</b>	StarBright Blue 700
<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 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 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** 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 ( $E_{x_{max}}/E_{m_{max}} = 470 \text{ nm}/700 \text{ nm}$ )

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

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

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**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.

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**Instructions For Use** Instructions for use can be found at [www.bio-rad-antibodies.com/uploads/IFU/12004157.pdf](http://www.bio-rad-antibodies.com/uploads/IFU/12004157.pdf)

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**References**

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3. Holoch, D. *et al.* (2021) A cis-acting mechanism mediates transcriptional memory at Polycomb target genes in mammals. [Nat Genet. 53 \(12\): 1686-97.](#)
4. Thomas, S. *et al.* (2021) Altered expression of fragile X mental retardation-1 (FMR1) in the thymus in autoimmune myasthenia gravis. [J Neuroinflammation. 18 \(1\): 270.](#)

5. Han, H. *et al.* (2021) Loss of aryl hydrocarbon receptor suppresses the response of colonic epithelial cells to IL22 signaling by upregulating SOCS3. [Am J Physiol Gastrointest Liver Physiol. Nov 10 \[Epub ahead of print\].](#)
6. Meissner, M.E. *et al.* (2021) Differential Activity of APOBEC3F, APOBEC3G, and APOBEC3H in the Restriction of HIV-2. [J Mol Biol. 434 \(2\): 167355.](#)
7. 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. Nov 27 \[Epub ahead of print\].](#)
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9. 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.](#)
10. Cejas, R.B. *et al.* (2022) Impact of DYRK1A Expression on TNNT2 Splicing and Daunorubicin Toxicity in Human iPSC-Derived Cardiomyocytes. [Cardiovasc Toxicol. May 21 \[Epub ahead of print\].](#)

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**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**

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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 #12004157 available at:  
12004157: <https://www.bio-rad-antibodies.com/uploads/MSDS/12004157.pdf>  
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<https://www.bio-rad-antibodies.com/uploads/MSDS/12004157.pdf>

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**Regulatory** For research purposes only

## Related Products

### Recommended Useful Reagents

[ANTI-ACTIN hFAB™ RHODAMINE ANTIBODY \(12004163\)](#)  
[ANTI-ACTIN hFAB™ RHODAMINE ANTIBODY \(12004164\)](#)  
[ANTI-GAPDH hFAB™ RHODAMINE ANTIBODY \(12004167\)](#)  
[ANTI-GAPDH hFAB™ RHODAMINE ANTIBODY \(12004168\)](#)  
[GOAT ANTI-RABBIT IgG StarBright™ Blue 700 \(12004161\)](#)  
[GOAT ANTI-RABBIT IgG StarBright™ Blue 700 \(12004162\)](#)  
[ANTI-TUBULIN hFAB™ RHODAMINE ANTIBODY \(12004165\)](#)  
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