

For Immunocytochemistry Staining and Western Blotting

KyoBright488-conjugated Secondary Antibody

This product is a fluorescently conjugated secondary antibody that can be used for applications such as immunocytochemistry. Two affinity-purified antibody types are available: Anti-Mouse IgG and Anti-Rabbit IgG. KyoBright488, the fluorophore conjugated to this product, is a bright and highly photostable fluorescent dye. Like the widely used FITC and Alexa Fluor 488, it is excited by blue light and emits green fluorescence.

Features

- 01 Detectable with a standard 488 nm filter set (Ex 495 nm / Em 520 nm)**
- 02 Affinity purified**
- 03 Cross-adsorbed***

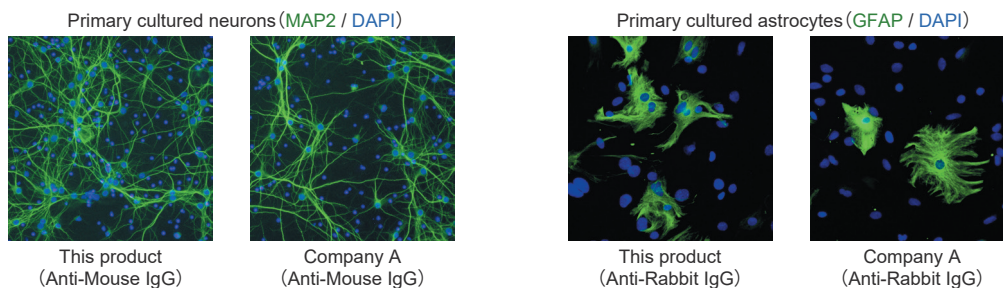
*Anti-Mouse IgG: cross-adsorbed against Human IgG, Rat IgG, and Rabbit IgG
Anti-Rabbit IgG: cross-adsorbed against Human IgG, Rat IgG, and Mouse IgG

Product Description

Performance comparison with competitor products in immunocytochemistry staining

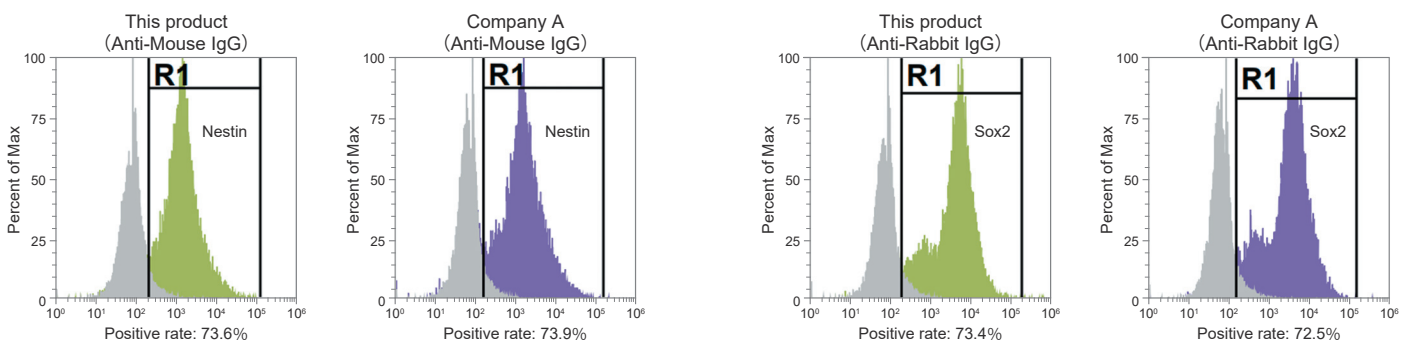
● Fluorescence microscopy observation

MAP2 or GFAP was detected using primary cultured mouse neurons and primary cultured mouse astrocytes. This product showed results comparable to those of Company A's product.



● Detection by flow cytometry

Expression of Nestin or Sox2 was confirmed using mouse neural stem cells. This product showed results comparable to those of Company A's product.



(Experimental conditions)

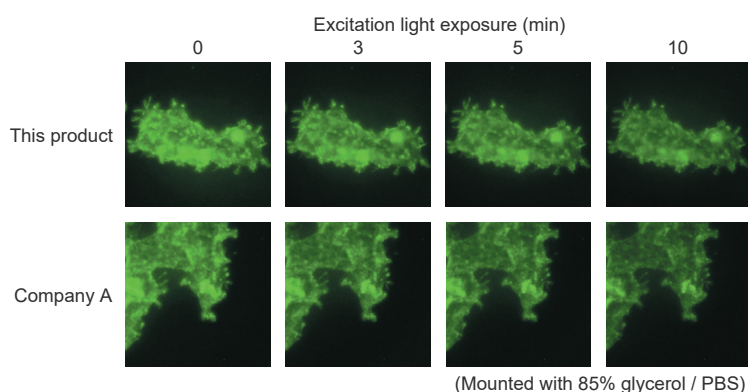
Please refer to our website (https://www.nacalai.com/global/reagent/kyobright488-conjugated_secondary_antibody.html).

Product Description (cont.)

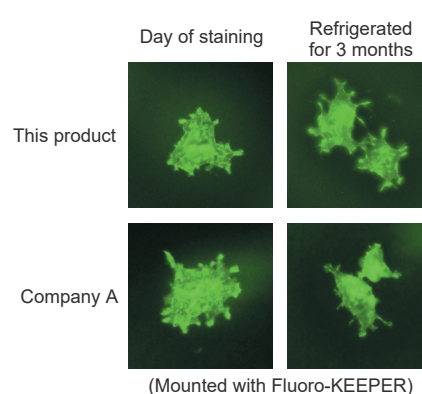
Evaluation of fluorophore stability

Using immunocytochemistry staining with HEK293 cells, the stability of the fluorophore under excitation light exposure and long-term storage was evaluated. This product was shown to exhibit dye stability equivalent to that of Company A's product.

● Comparison of dye stability under excitation light exposure



● Comparison of dye stability after long-term storage



Images taken on the day of staining and after 3 months of refrigerated storage were captured from specimens on the same slide.

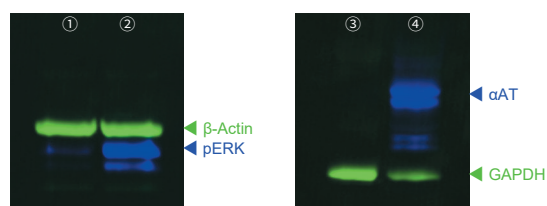
(Experimental conditions)

Please refer to our website (https://www.nacalai.com/global/reagent/kyobright488-conjugated_secondary_antibody.html).

Application

Application to fluorescent Western blotting

Using HEK293 cells treated to activate Protein Kinase C and iPS cell-derived hepatocytes, multiplex detection was performed for housekeeping proteins as well as proteins involved in phosphorylation and differentiation.



(Experimental conditions)

- ① HEK293 cells (10 μg)
- ② HEK293 cells treated to activate Protein Kinase C (10 μg)
- ③ iPS cells (10 μg)
- ④ iPS cell-derived hepatocytes (10 μg)

For detailed conditions, please refer to our website

(https://www.nacalai.com/global/reagent/kyobright488-conjugated_secondary_antibody.html).

Green: KyoBright488-conjugated secondary antibody
Blue: StarBright Blue 700-conjugated secondary antibody

All product names, trademarks, and registered trademarks are the property of their respective owners. Use of these names does not imply any affiliation or endorsement.

Ordering Information

Product Name	Grade	Storage	Product No.	PKG Size
Anti-Mouse IgG(Goat), KyoBright488-conjugated, Pre-absorbed	SP	Refrigerate	22844-06	100 μL
			22844-64	0.5 mL
Anti-Rabbit IgG(Goat), KyoBright488-conjugated, Pre-absorbed	SP	Refrigerate	22849-56	100 μL
			22849-14	0.5 mL

Related Product

Product Name	Grade	Storage	Product No.	PKG Size
Fluoro-KEEPER Antifade Reagent, Non-Hardening Type	SP	Refrigerate	12593-64	2 X 5 mL
Fluoro-KEEPER Antifade Reagent, Non-Hardening Type with DAPI	SP	Refrigerate	12745-74	2 X 5 mL

For research use only, not intended for diagnostic or drug use.