Fluorescein/Oregon Green Monoclonal Antibody (4-4-20)

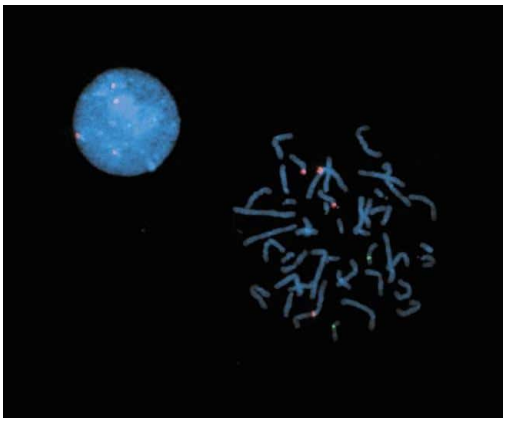
Product Details	
Size	500 µg
Species Reactivity	Chemical
Host/Isotype	Mouse
Class	Monoclonal
Type	Antibody
Clone	4-4-20
Conjugate	Unconjugated
Immunogen	fluorescein/Oregon Green®
Form	Lyophilized
Storage conditions	4° C
RRID	AB_2536201

Applications	Tested Dilution	Publications
Western Blot (WB)	-	2 Publications
Immunohistochemistry (IHC)	Assay-dependent	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunocytochemistry (ICC/IF)	Assay-dependent	3 Publications
Flow Cytometry (Flow)	Assay-dependent	1 Publication
ELISA (ELISA)	-	4 Publications
Blocking Assay (BLOCK)	-	3 Publications
Miscellaneous PubMed (Misc)	-	13 Publications

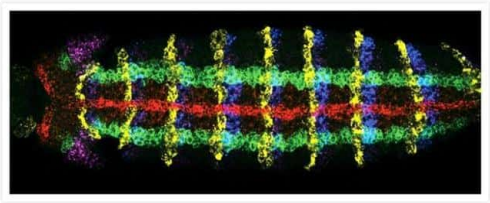
Product Specific Information

Storage and reconstitution: a stock solution can be made by dissolving the powder in 0.5 mL of deionized water to yield an antibody concentration of 1 mg/mL. When stored desiccated at 4°C or -20°C, the lyophilized product is stable for at least six months. Stock solutions are stable for at least three months when stored at 4°C. For longer storage of solutions, divide into aliquots and freeze at -20°C.

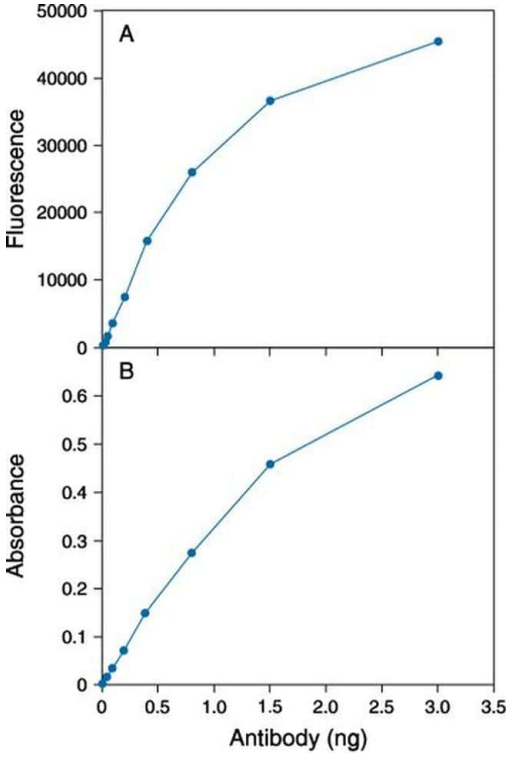
Product Images For Fluorescein/Oregon Green Monoclonal Antibody (4-4-20)



Fluorescein/Oregon Green Antibody (A-6421) in ICC/IF
a-Satellite probes to chromosomes 1, 15 and 17 were labeled by nick translation with biotin-11-dUTP, ChromaTide Texas Red-12-dUTP (C7631) and ChromaTide Oregon Green 488-5-dUTP, respectively. Following simultaneous hybridization of all three probes, the biotinylated chromosome 1 probe was detected with HRP-streptavidin conjugate and Alexa Fluor 546 tyramide (TSA Kit #23, Prod # T20933). HRP activity from this first TSA detection step was then quenched by treatment with 1% hydrogen peroxide for 30 minutes. Lastly, the Oregon Green 488 dye-labeled chromosome 17 probe was detected with anti-fluorescein/Oregon Green antibody (Prod # A6421) followed by HRP-conjugated goat anti-mouse IgG antibody and Alexa Fluor 594 tyramide (TSA Kit #5, Prod # T20915). HRP activity from this second TSA detection step was then quenched by treatment with 1% hydrogen peroxide for 30 minutes. The Texas Red dye-labeled chromosome 15 probe was then detected with rabbit anti-Texas Red antibody (Prod # A6399) followed by HRP-conjugated goat anti-rabbit IgG antibody and Alexa Fluor 488 tyramide (TSA Kit #12, Prod # T20922). After counterstaining with Hoechst 33258 (Prod # H1398, H3569, H21491), the images were acquired using filters appropriate for DAPI, FITC, TRITC and Texas Red dyes.



Fluorescein/Oregon Green Antibody (A-6421) in IHC
Simultaneous detection of expression of five genes in a whole-mount Drosophila embryo by fluorescence in situ hybridization (FISH) with five RNA probes. Red: sog labeled using aminoallyl UTP (Prod # A21663, A32765) and Alexa Fluor® 647 succinimidyl ester (Prod # A20006, A20106). Green: ind labeled with DNP, followed by rabbit anti-dinitrophenyl-KLH IgG antibody (Prod # A6430) prelabeled with the Zenon® Alexa Fluor® 555 Rabbit IgG Labeling Kit (Prod # Z25305). Blue: en labeled with biotin and detected with HRP-streptavidin and Alexa Fluor® 405 tyramide (TSA™ Kit #39, T30952). Yellow: wg labeled with digoxigenin and detected with sheep anti-digoxigenin IgG antibody and Alexa Fluor® 594 Donkey Anti-Sheep IgG antibody (Prod # A11016). Magenta: msh labeled with fluorescein and detected with mouse anti-fluorescein/Oregon Green® IgG_{2a} antibody (Prod # A6421) and Alexa Fluor® 488 Goat Anti-Mouse IgG antibody (Prod # A11001, A11029). Image contributed by Dave Kosman and Ethan Bier, University of California, San Diego.



Fluorescein/Oregon Green Antibody (A-6421)
Detection of a mouse monoclonal antibody using the Amplex® Red ELISA Kit #1, with the horseradish peroxidase conjugate of goat anti-mouse IgG antibody (Prod # A22170). The wells of a microplate were first coated with an excess of a fluorescein conjugate of bovine serum albumin (BSA) and then blocked with PBS-BSA. The indicated amounts of anti-fluorescein/Oregon Green® mouse monoclonal 4-4-20 antibody (Prod # A6421) were then applied in 100 µL volumes and incubated for one hour. The wells were washed and then assayed using the reagents and protocol provided in this kit. The reactions were incubated for 50 minutes and then measured both A) for fluorescence (excitation/emission of 530 177 12.5 nm/590 177 10 nm) and B) for absorbance (576 177 5 nm). The data points represent the average of three reactions. For the fluorescence plot, a background of 280 (arbitrary units) has been subtracted from each reading; for the absorption plot, a background of 0.040 has been subtracted from each reading.

28 References

Western Blot (2)

American journal of physiology. Renal physiology

The reactive nitrogen species peroxynitrite is a potent inhibitor of renal Na-K-ATPase activity.

"A-6421 was used in western blot to examine the direct effects of peroxynitrite on Na-K-ATPase function"

Authors: Reifenberger MS,Arnett KL,Gatto C,Milanick MA

Year
2008

Dilution
1:5000

Biology of the cell

Analysis of rates of receptor-mediated endocytosis and exocytosis of a fluorescent hapten-protein conjugate in murine macrophage: implications for antigen processing.

"A-6421 was used in western blot to investigate the effect of receptor-mediated endocytosis upon the processing of the hapten-protein within murine peritoneal macrophage"

Authors: Weaver DJ,Voss EW

Year
1998

Immunohistochemistry (1)

Proceedings of the National Academy of Sciences of the United States of America

Antibody caging of a nuclear-targeting signal.

"A-6421 was used in immunohistochemistry to develop a technique to reversibly mask a peptide-targeting signal"

Authors: Halleck MS,Rechsteiner M

Year
1990

Immunohistochemistry (Paraffin) (1)

American journal of physiology. Endocrinology and metabolism

The vascular endothelial cell mediates insulin transport into skeletal muscle.

"A-6421 was used in immunohistochemistry - paraffin section to determine mediation of insulin transport into skeletal muscle via the vascular endothelial cell"

Authors: Wang H,Liu Z,Li G,Barrett EJ

Year
2006

Dilution
1:100

More applications with references on thermofisher.com

ICC/IF (3) **Flow (1)** **ELISA (4)** **BLOCK (3)** **Misc (13)**