

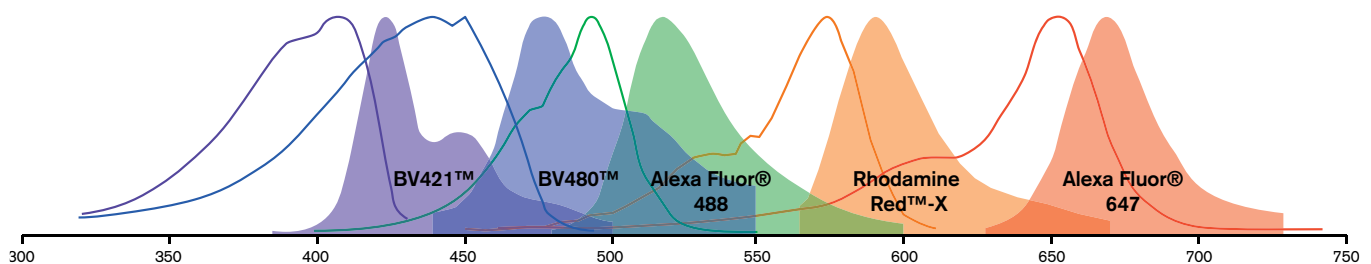
Specializing in **Secondary Antibodies** and **Conjugates**

## BD Brilliant Violet™ BV421 and BV480 Conjugates

Enabling up to 5-color imaging with Jackson ImmunoResearch Secondary Antibodies

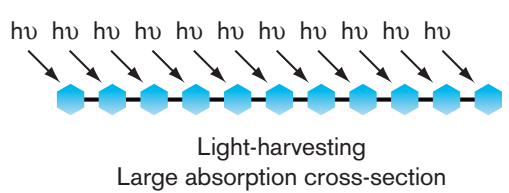
Add more colors to multiple labeling assays in the UV/Vis region, with **Brilliant Violet 421™** and **Brilliant Violet 480™** conjugated secondary antibodies. When combined with **Alexa Fluor® 488**, **Rhodamine-Red™-X**, and **Alexa Fluor® 647** conjugates, effective 5-color fluorescent labeling is possible.

If nuclear counterstaining is desired, 4-color antibody staining is possible using **Brilliant Violet 421**, **Brilliant Violet 480**, **Alexa Fluor® 488** and **Rhodamine Red™-X**. Switching the nuclear stain from DAPI (emission in the blue region) to DRAQ5™ (which has red emission) frees the violet-blue region of the spectrum to accommodate the two Brilliant Violet dyes. DRAQ5's excitation and emission profiles overlap those of Alexa Fluor® 647.



Channel	Dye	Amax (nm)	Emax (nm)	Chroma Filter Set
Blue	BV421™	407	421	49027
Cyan	BV480™	436	478	49302 or 49001

BV Dyes are compatible with commonly used filter sets, such as those available from Chroma Technology.



BD Brilliant Violet polymer chains can be considered as a collection of optical segments, each with the ability to absorb light and emit fluorescence signal. This results in materials that have a bright fluorescence signal for better resolution and sensitivity.



Double immunofluorescence of Hep-2 cells using Brilliant Violet 421 and 480 conjugated secondary antibodies. Nuclei counterstained with DRAQ5.

Antibody Description		BV421™ A=407, E=421	BV480™ A=436, E=478
Donkey Anti-Chicken IgY <sup>†</sup> (IgG)(H+L) (min X Bov, Gt, GP, Sy Hms, Hrs, Hu, Ms, Rb, Rat, Shp Sr Prot)	ML*	0.25 ml 703-675-155	0.25 ml 703-685-155
Donkey Anti-Goat IgG (H+L)*** (min X Ck, GP, Sy Hms, Hrs, Hu, Ms, Rb, Rat Sr Prot)	ML*	0.25 ml 705-675-147	0.25 ml 705-685-147
Donkey Anti-Guinea Pig IgG (H+L) (min X Bov, Ck, Gt, Sy Hms, Hrs, Hu, Ms, Rb, Rat, Shp Sr Prot)	ML*	0.25 ml 706-675-148	0.25 ml 706-685-148
Donkey Anti-Human IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Ms, Rb, Rat, Shp Sr Prot)	ML*	0.25 ml 709-675-149	0.25 ml 709-685-149
Donkey Anti-Mouse IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Rb, Shp Sr Prot)	ML*	0.25 ml 715-675-150	0.25 ml 715-685-150
Donkey Anti-Mouse IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Rb, Rat, Shp Sr Prot)**	ML*	0.25 ml 715-675-151	0.25 ml 715-685-151
Goat Anti-Mouse IgG (H+L) (min X Hu, Bov, Hrs, Rb, Sw Sr Prot)	ML*	0.25 ml 115-675-146	0.25 ml 115-685-146
Goat Anti-Mouse IgG (H+L) (min X Hu, Bov, Hrs, Rb, Rat Sr Prot)	ML*	0.25 ml 115-675-166	0.25 ml 115-685-166
Goat Anti-Mouse IgG Fc <sub>γ</sub> fragment specific (min X Hu, Bov, Hrs Sr Prot)	ML*	0.25 ml 115-675-071	0.25 ml 115-685-071
Goat Anti-Mouse IgM, μ chain specific (min X Hu, Bov, Hrs Sr Prot)	ML*	0.25 ml 115-675-075	0.25 ml 115-685-075
Goat Anti-Mouse IgG, Fc <sub>γ</sub> subclass 1 specific (min X Hu, Bov, Rb Sr Prot)	ML*	0.25 ml 115-675-205	0.25 ml 115-685-205
Goat Anti-Mouse IgG, Fc <sub>γ</sub> subclass 2a specific (min X Hu, Bov, Rb Sr Prot)	ML*	0.25 ml 115-675-206	0.25 ml 115-685-206
Goat Anti-Mouse IgG, Fc <sub>γ</sub> subclass 2b specific (min X Hu, Bov, Rb Sr Prot)	ML*	0.25 ml 115-675-207	0.25 ml 115-685-207
Goat Anti-Mouse IgG, Fc <sub>γ</sub> subclass 3 specific (min X Hu, Bov, Rb Sr Prot)	ML*	0.25 ml 115-675-209	0.25 ml 115-685-209
Donkey Anti-Rabbit IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Ms, Rat, Shp Sr Prot)	ML*	0.25 ml 711-675-152	0.25 ml 711-685-152
Goat Anti-Rabbit IgG (H+L) (min X Hu, Ms, Rat Sr Prot)	ML*	0.25 ml 111-675-144	0.25 ml 111-685-144
Donkey Anti-Rat IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Rb, Shp Sr Prot)	ML*	0.25 ml 712-675-150	0.25 ml 712-685-150
Donkey Anti-Rat IgG (H+L) (min X Bov, Ck, Gt, GP, Sy Hms, Hrs, Hu, Ms, Rb, Shp Sr Prot)**	ML*	0.25 ml 712-675-153	0.25 ml 712-685-153
Goat Anti-Rat IgG (H+L) (min X Hu, Bov, Hrs, Rb Sr Prot)	ML*	0.25 ml 112-675-143	0.25 ml 112-685-143
Goat Anti-Rat IgG (H+L) (min X Hu, Bov, Hrs, Ms, Rb Sr Prot)**	ML*	0.25 ml 112-675-167	0.25 ml 112-685-167
Goat Anti-Rat IgG, Fc <sub>γ</sub> fragment specific (min X Hu, Bov, Hrs Sr Prot)	ML*	0.25 ml 112-675-071	0.25 ml 112-685-071
Goat Anti-Rat IgM, μ chain specific (min X Hu, Bov, Hrs Sr Prot)	ML*	0.25 ml 112-675-075	0.25 ml 112-685-075
Donkey Anti-Sheep IgG (H+L)*** (min X Ck, GP, Sy Hms, Hrs, Hu, Ms, Rb, Rat Sr Prot)	ML*	0.25 ml 713-675-147	0.25 ml 713-685-147
<b>Controls</b>			
ChromPure Donkey IgG, whole molecule		0.25 ml 017-670-003	0.25 ml 017-680-003
ChromPure Goat IgG, whole molecule		0.25 ml 005-670-003	0.25 ml 005-680-003

<sup>†</sup> IgY is the original designation for the IgG-like protein found in both serum and egg yolk.

\* ML= Multiple Labeling (see Multiple Labeling at [www.jacksonimmuno.com](http://www.jacksonimmuno.com) for an explanation).

\*\* Caution: See Selection and Location of Affinity-Purified Antibodies before selecting an antibody adsorbed against closely related species.

\*\*\* Warning: BSA and dry milk may contain IgG which will react with this antibody. Use of BSA and/or dry milk to block or dilute this antibody may increase background and/or reduce secondary antibody titer.



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Alexa Fluor® fluorescent dyes is a trademark of Life Technologies Corp.  
Rhodamine Red™-X is a trademark of Invitrogen.  
DRAQ5™ is a trademark of BioStatus Ltd.



Certified by UKAS to BS EN ISO 9001:2008 under certificate number 12017/1.

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