

## *in situ* Hybridization

### DNADetector™ *in situ* Hybridization Kits

DNADetector *in situ* Hybridization Kits provide simple sensitive detection of DNA in cells, tissues, and metaphase chromosomes. Available for both chromogenic and fluorescent methods, these convenient kits include everything you need for *in situ* hybridization and detection of DNA except for biotinylated probe.

#### DNA Detector Chromogenic *in situ* Hybridization Kit:

- Brilliant blue stain gives excellent contrast to red counterstains.
- TrueBlue™ substrate provides superior resolution; very fine precipitate vs. large clumps of color with BCIP/NBT.
- Sensitivity equal to that of FISH with permanent results.
- Kit contains all reagents, including control slides to perform *in situ* hybridization.

Biotin-labeled primary antibody must be supplied by kit user.

#### DNADetector Fluorescent *in situ* Hybridization Kit:

- Cy3 conjugates provide 5 - 10 times greater fluorescence than fluorescein-labeled probes<sup>1</sup>.
- Cy3 conjugates are more photostable than FITC or TRITC. Bright fluorescence can still be seen 6 months after staining.
- No new filters required. Cy3 conjugates are visualized using the standard filters for TRITC.
- Kit contains all reagents, including control slides to perform *in situ* hybridization. Biotin-labeled primary antibody must be supplied by kit user.

**Photo on right:** Cytomegalovirus infected cells detected with a biotinylated CMV probe and the DNADetector Chromogenic *in situ* Hybridization Kit using HRP-Streptavidin, TrueBlue and Orcein.

**Photo on left:** Cytomegalovirus infected cells detected with a biotinylated CMV probe and the DNADetector Fluorescent *in situ* Hybridization Kit using Cy3-Streptavidin and DAPI.

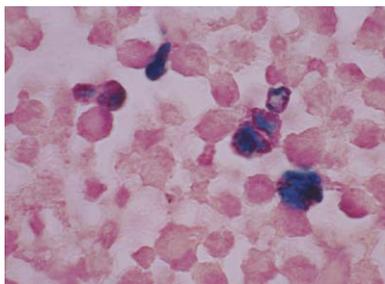
<sup>1</sup> Yurov, Y. B. et. al. Human Genetics, 97, 390-398 (1996)



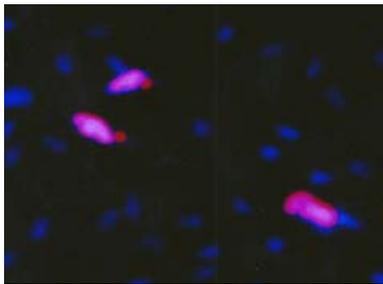
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# in situ Hybridization

## DNADetector™ *in situ* Hybridization Kits



Herpes simplex virus infected tissue detected with a biotinylated herpes probe and the DNADetector Chromogenic *in situ* Hybridization Kit using TrueBlue and Orcein.



Cytomegalovirus infected cells detected with a biotinylated CMV probe and the DNADetector Fluorescent *in situ* Hybridization Kit using Cy3-Streptavidin and DAPI.

### DNADetector Chromogenic *in situ* Hybridization Kit

#### Contents:

Hybridization Buffers  
20X SSC  
HRP Streptavidin Conjugate  
Wash Solution  
Conjugate Diluent buffer  
TrueBlue Peroxidase Substrate  
Orcein and Eosin Counterstains  
Control Hybridization Cocktail  
Control Slide

Sufficient reagents are provided for the hybridization and detection of 50 samples.

### DNADetector Fluorescent *in situ* Hybridization Kit

#### Contents:

Hybridization Buffers  
20X SSC  
Cy3 Streptavidin Conjugate  
Wash Solution  
Conjugate Diluent buffer  
DAPI Counterstain  
Fluorescent Mounting Media  
Control Hybridization Cocktail  
Control Slide

Sufficient reagents are provided for the hybridization and detection of 50 samples.

## Ordering Information

Catalog#	Description	Size
60-03-00	Chromogenic <i>in situ</i> Hybridization Kit	50 samples
60-05-00	Fluorescent <i>in situ</i> Hybridization Kit, Cy3/DAPI	50 samples
<b>Detector Probe Labeling Kits</b>		
60-01-00	Random Primer Biotinylation Kit	30 reactions
60-01-01	PCR Biotinylation Kit	30 reactions
60-01-02	RNA <i>in vitro</i> Transcription Kit	20 reactions

To order or for more information on KPL's full line of protein and nucleic acid detection products, contact us at 800.638.3167 / 301.948.7755, FAX 301.948.0169 or visit us at [www.kpl.com](http://www.kpl.com).

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## Related Products

Universal Block  
Catalog No. 71-00-61  
Size: 100 mL

Herring Sperm DNA  
Catalog No. 60-00-14  
Size: 40 mg

Fluorescent Mounting Media  
Catalog No. 70-00-16  
Size: 15 mL

Orcein  
Catalog No. 71-01-01  
Size: 50 mL

Eosin Y  
Catalog No. 71-02-01  
Size: 10 mL

DAPI Counterstain  
Catalog No. 71-03-01  
Size: 1.0 mg

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diagnostika

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