

## **TrueBlue<sup>™</sup> Peroxidase Substrate for Immunohistochemistry**

TrueBlue is a highly sensitive chromogenic substrate for visualization of horseradish peroxidase-labeled reporter reagents. It provides a brilliant blue specific stain, which contrasts sharply with red counterstains. TrueBlue Substrate is a buffered solution containing 3, 3', 5, 5'-tetramethylbenzidine (TMB) and Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>). TrueBlue offers the following benefits:

### **Highest Sensitivity**

TrueBlue is 50 to 100 times more sensitive than DAB. It provides an excellent means for detecting low abundant target antigens.

### Safe-to-Use

TrueBlue is non-carcinogenic and safe-to-use, no special handling and disposal required.

#### **Economical**

TrueBlue permits extremely high dilutions of costly primary antibodies. You can perform many more assays with TrueBlue, saving you time and money. This stable, liquid system eliminates waste and reduces preparation time.

### Ideal for Multiple Staining

TrueBlue forms a dark blue reaction product that offers outstanding contrast with DAB and other substrates in sequential localization assays.

### **Highly Stable and Convenient**

TrueBlue is provided as a stable, singlecomponent working solution that is readyto-use. No reagent preparation required.



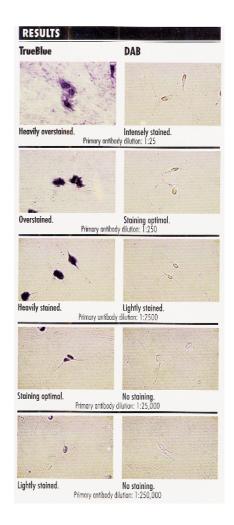
# **TrueBlue Comparison to DAB**

### Methodology

TrueBlue and DAB were compared using increasing dilutions of monoclonal antibody to latent cytomegalovirus (CMV) antigen on CMV-infected, acetone-fixed fibroblast cell monolayers. Monolayers were immunostained using identical protocols (monoclonal antibody and conjugate incubations of 30 minutes each, and substrate incubations of 10 minutes each).

### Conclusion

TrueBlue exhibited 100 times higher sensitivity than DAB. When using TrueBlue, dilute primary antibodies 10 to 50 times further for superior staining and lower background.



# TrueBlue™

### **Technical Tips**

- stain. Excess substrate may wash
- Color development in less than 10
- specific binding sites in the tissue
- Peroxidase block solution washing; it can affect antibody
- dry or color may fade rapidly after

### **Ordering Information**

| Catalog No. | Description                   | Size   |
|-------------|-------------------------------|--------|
| 50-78-02    | TrueBlue Peroxidase Substrate | 200 mL |
| 71-00-64    | TrueBlue Peroxidase Substrate | 50 mL  |
| 71-00-67    | TrueBlue Peroxidase Substrate | 10 mL  |

To order or for more information on KPI'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.

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