

KPL Universal Block

Catalog No.
5560-0009 (71-00-61)

Size
100 mL

DESCRIPTION

KPL Universal Block is an effective inhibitor of endogenous peroxidase and phosphatase activities. KPL Universal Block contains a proprietary synergistic antioxidant sequestering agent which removes trace metals and oxidizers that could adversely affect immunodetection sensitivity and specificity. It is provided at use dilution.

Peroxidase can be found in most cells including mammary epithelium, uterine secretory endometrium, and blood and bone marrow cells such as eosinophils, basophils and macrophages. Hemoproteins such as catalase, cytochrome c, myoglobin and hemoglobin may also exhibit peroxidase activity.

Alkaline phosphatase activity is found in both prokaryotes and eukaryotes. Mammalian alkaline phosphatase activity is due to a variety of enzymes differentially expressed in a number of tissues. Endogenous phosphatase activity is present most intensely in bladder epithelium, renal tubules, small intestine, placental trophoblasts, neutrophils and mast cells. Several have biochemical properties which make selective inhibition of specific forms possible.

FORM/STORAGE/STABILITY

Ready to use liquid. Store tightly capped at 2–8°C. Stable for a minimum of 1 year at 2-8°C.

APPLICATIONS

KPL Universal Block can be used in immunohistochemical procedures to quench endogenous peroxidase and phosphatase activity. This is especially useful in double labeling assays where two different enzyme conjugates may be used. Use KPL Universal Block to treat tissue prior to sensitizing with primary antibody or antigen.

USE

After tissue sections or other cellular preparations have been fixed or deparaffinized as necessary, immerse specimen in KPL Universal Block. Suggested incubation times are as follows:

Paraffin Sections: 20 - 30 minutes

Frozen Sections, Cytospin Preparations or Blood Films:
5 - 10 minutes

Blocking time may need to be increased or decreased to suit individual applications.

After incubation with KPL Universal Block, rinse specimens in reagent quality water, then soak in 100mM Tris-HCl, pH 7.6 (or other appropriate buffer) for five minutes and continue with the appropriate protocol.

REFERENCES

True, L., Atlas of Diagnostic Immunohistochemistry; J.B. Lippincott Company, New York, p 1.25-1.26, 1990.

PRODUCT SAFETY AND HANDLING

This product is considered non-hazardous as defined by the Hazard Communication Standard (29 CFR 1910.1200). Avoid contact with skin and eyes. In case of contact or spillage, clean with copious amounts of water. Product may be disposed via sanitary sewer.

RELATED PRODUCTS

CAT. NO.

KPL HistoMark® BLACK HRP Substrate	5510-0034 (54-75-00)
KPL HistoMark ORANGE HRP Substrate	5510-0033 (54-74-00)
KPL StableDAB™ HRP Substrate	5510-0032 (54-11-00)
KPL TrueBlue™ HRP Substrate	5510-0030 (50-78-02)
KPL HistoMark BLUE AP Substrate	5510-0037 (55-70-00)
KPL HistoMark RED AP Substrate	5510-0036 (55-69-00)
KPL X-Gal β-Galactosidase Substrate	5520-0022 (54-13-00)

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.