

Universal Block

Catalog No.
71-00-61

Size
100 mL



DESCRIPTION

Universal Block is an effective inhibitor of endogenous peroxidase and phosphatase activities. 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 peroxidatic 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

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 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 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 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.

HistoMark® Biotin Streptavidin Kits

Peroxidase Mouse Primary	Catalog No. 71-00-18
Peroxidase Rabbit Primary	Catalog No. 71-00-19
Peroxidase Rat Primary	Catalog No. 71-00-20
Peroxidase Goat Primary	Catalog No. 71-00-26

Phosphatase Mouse Primary	Catalog No. 71-00-39
Phosphatase Rabbit Primary	Catalog No. 71-00-40
Phosphatase Rat Primary	Catalog No. 71-00-41

HistoMark® Substrates

Peroxidase: HistoMark BLACK	Catalog No. 54-75-00
HistoMark ORANGE	Catalog No. 54-74-00
StableDAB	Catalog No. 54-11-00
TrueBlue	Catalog No. 54-78-02
Phosphatase: HistoMark BLUE	Catalog No. 55-70-00
HistoMark RED	Catalog No. 55-69-00
B-Galactosidase: X-Gal Substrate	Catalog No. 54-13-00

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Nothing disclosed herein is to be construed as a recommendation to use this product in violation of any patents. However, said information and product are offered without warranty or guarantee since the ultimate conditions of use and the variability of the materials treated are beyond our control. We cannot be responsible for patent infringements or other violations that may occur with the use of this product. No claims beyond replacement of unacceptable material or refund of purchase price shall be allowed.