

C-Block (Casein Blocking Solution)

<u>Cat No.</u>	<u>Quantity</u>
10-0040	100 mL Ready-To-Use

Intended Use For In Vitro Diagnostic Use.

This product is intended for use in immunohistochemical (IHC) staining. This product inhibits nonspecific staining during the IHC detection of antigens. It is a non-serum based, universal blocking agent compatible with all primary and secondary antibodies of species. It eliminates the needs for species-specific blocking serum.

Reagents Supplied One bottle of 100 mL Ready-To-Use **Casein Blocking Solution** in phosphate buffered saline (PBS) containing 0.25% Casein, stabilize protein, and 0.09% w/v Sodium Azide (NaN₃).

Summary and Explanation Evaluation of specific staining by IHC in tissue section is frequently impeded by the presence of nonspecific staining which may lead to an erroneous interpretation or false-positive results. Typically, diffuse background staining stems from hydrophobic or ionic interactions between the primary antibody or secondary reagents and tissue components other than the target antigen. Traditionally, interactions of link immunoglobulins with tissue proteins were decreased by application of nonimmune blocking serum before incubation with the primary antibody. However, the blocking serum must be carefully matched to the primary antibody and link antibody to prevent cross-reactivities.

Casein Blocking Solution utilizes casein, a hydrophilic protein which has been shown to decrease nonspecific binding of primary antibody and secondary reagents in IHC. It does not require matching with the primary and link antibodies and is compatible with any secondary reagent system. It eliminates the possibility of unanticipated cross-reactivities.

Procedure After deparaffinization and endogenous peroxidase blocking steps:

1. Rinse 3 times with 1X PBS.
2. Apply enough Casein Blocking Solution to the tissue and incubate for 10 minutes at room temperature.
3. Tap off the Casein Blocking Solution (**do not wash**) and apply primary antibody.

Storage Store at 2-8°C. Do not freeze.

All performance claims are void after the expiration date.

Materials Required But Not Supplied 1X PBS

Precautions For professional users only.

Sodium Azide (NaN₃) is a toxic chemical and is present as an antimicrobial agent. The concentration in this product is not classified as hazardous. However, the build-up of NaN₃ may react with lead and copper plumbing to form highly explosive metal azides. Flush any disposed reagent with large volumes of water to prevent azide build-up.

Symbols

 Catalog No.	 Batch No.	 In Vitro Diagnostic Use	 Temperature Range	 Use By
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