Monster Block ELISA Blocking Buffer, Non-Mammalian

Cat#: orb623177 (Datasheet)

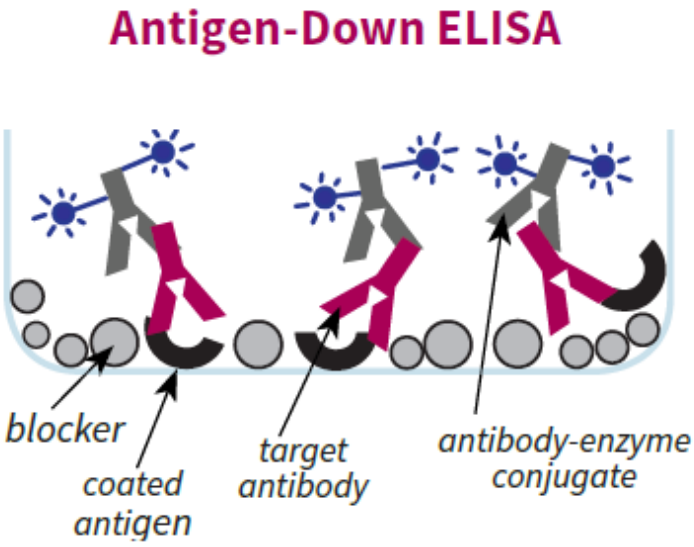
Monster Block

Reduces backgrounds using non-mammalian protein-based blockers.

Monster Block provides a high degree of blocking efficiency through the use of a heterogeneous mixture of non-mammalian protein blocking agents. It minimizes non-specific binding interactions during the assay to reduce background noise, enhancing the sensitivity of the assay. It also provides a micro-hydrated environment to stabilize the coated protein during long-term storage through improved retention of antigen epitope and antibody binding activity. An antimicrobial component allows for stable blocking of plates at room temperature and for long-term refrigerated storage of the dried plate.

Monster Block is designed for antigen-down and sandwich ELISAs with high background problems and for assays that may cross-react with conventional mammalian blocking buffers. The non-mammalian formulation is antigenically foreign to most mammalian immune systems. In antigen-down ELISAs used to detect epitope-specific antibodies, and in sandwich ELISAs used to measure the antigen concentration in an unknown sample, the use of Monster Block reduces the possibility of false-positives generated from endogenous antibodies in the sample reacting with blocking proteins on the plate.

When preparing plates, the antibody or antigen is typically coated using 50-200 µL of coating solution per well. After coating, plates are normally washed to remove unbound proteins and then blocked using a larger volume of blocking buffer than was used for coating, such as 300 µL per well. This ensures that all uncoated regions inside the well are blocked. A 96-well plate blocked using this method will require 28.8 mL of blocking solution. However, allow for at least 10% extra blocking buffer volume to account for losses during pipetting.



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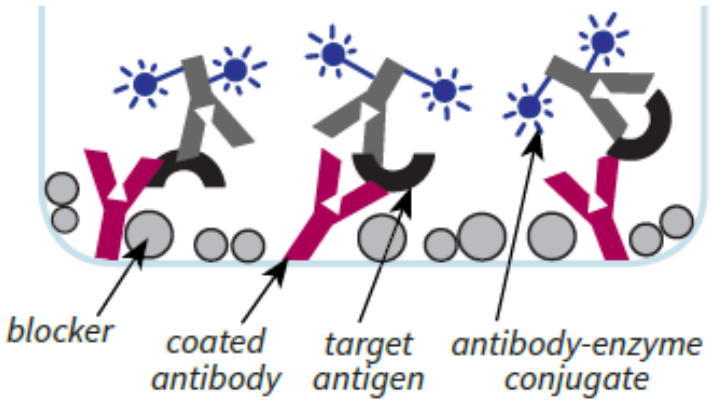
Antibody Sandwich ELISA



INSTRUCTIONS:

1. Coat antibody or antigen onto the ELISA plate (use coating buffer).
2. Incubate covered plate 8-24 hours at room temperature.
3. Aspirate the coating solution.
4. Wash plate twice with ELISA Wash Buffer.
5. Block the uncoated regions of the ELISA plate by pipetting 300-400 µL of blocking buffer into each well. Always use a greater volume of blocking buffer than was used for the coating solution.
6. Incubate 8-24 hours.
7. Aspirate the blocking buffer; do not wash.
8. Run the assay immediately, or dry the plate for long-term storage and seal in a foil bag with a desiccant pack.

For more ELISA protocols and information, please visit www.immunochemistry.com.

SPECIFICATIONS:

. Clear liquid
. 1X ready to use
. pH 7.1-7.6

STORAGE:

. 24 months at 2-8°C
. 1 week at room temperature

SAFETY & USAGE:

. Contains ≤0.1% sodium azide
. SDS available at immunochemistry.com
. Product intended for research use or for further manufacturing into in-vitro diagnostics reagents only.
. Not intended for use in human or therapeutics purposes.

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