

## Primary Antibody Diluent

<u>Cat No.</u>	<u>Quantity</u>
10-0001	500 mL Ready-To-Use

**Intended Use** For In Vitro Diagnostic Use.

This product is intended for use with mouse and/or rabbit primary antibodies to dilute the antibody to a lower concentration. In immunohistochemical (IHC) staining procedures, the user requires a diluted antibody for an optimal staining result. This product can also be used as a negative control reagent during IHC staining procedures or to dilute non-immune Mouse and/or Rabbit IgG.

**Reagents Supplied** One bottle of Ready-To-Use Primary Antibody Diluent – 10 mM Phosphate buffered saline (PBS), 1% w/v Bovine Serum Albumin (BSA), 0.09% w/v Sodium Azide.

**Summary And Explanation** During IHC staining procedures, interactions between antibodies and epitopes are limited to weak forces including van der Waals forces, electrostatic forces, and hydrophobic forces. Alterations in pH or ionic strength can disrupt these weak forces, weakening antibody-epitope binding and impacting staining results. The use of a proper antibody diluent mitigates these potential alterations and helps to ensure the optimal performance of the antibody.

Primary Antibody Diluent can help stabilize diluted antibodies when stored at 2-8°C. BSA serves as a stabilizer protein to prevent degradation in diluted antibodies.

Sodium Azide is present at a low concentration as an anti-microbial agent.

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

All performance claims are void after the expiration date.

**Materials Required But Not Supplied** Primary Antibody (Genemed offers concentrated Primary Antibodies)

**Precautions** For professional users only.

Sodium Azide ( $\text{NaN}_3$ ) is a toxic chemical and is present as an antimicrobial agent in Primary Antibody Diluent. The concentration in this product is not classified as hazardous. However, the build-ups of  $\text{NaN}_3$  may react with lead and copper plumbing to form highly explosive metal azides. Flush any disposed reagent with large volume of water to prevent azide build-up.

This product is not designed for antibodies conjugated to peroxidase enzyme, as Sodium Azide inhibits peroxidase activity.

### Symbols

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