

## MONKEY IgM mu antibody (Peroxidase)

**Cat#: orb348018 (CoA)**

**Size:** 1 mg

**Lot #:** 46683

**Product Description:** Anti-MONKEY IgM (mu chain) (GOAT) Antibody Peroxidase Conjugated

**Concentration:** 1.0 mg/mL

**Physical State:** Lyophilized

**Label:** Peroxidase (Horseradish)

**Conjugation Reference:** Modified from Farr & Nakane, J. Immunol. Methods 47; 129-144. 1981.

**Color:** Substrate dependent

**Label M/W:** 40,000

**Conjugation Chemistry:** Periodate

**Host:** Goat

**Species Reactivity:** Simiiformes (Monkey)

**Buffer:** 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

**Stabilizer:** 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

**Preservative:** 0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!

**Reconstitution Buffer:** Restore with deionized water (or equivalent)

**Reconstitution Volume:** 1.0 mL

**Expiration:** Expiration date is one (1) year from date of opening.

**Storage Condition:** Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below.

Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

**Synonyms:** Goat Anti-Monkey IgM Antibody peroxidase Conjugation, Goat Anti-Monkey IgM HRP Conjugated Antibody

**Background:** Anti-Monkey IgM (mu chain) peroxidase conjugated antibody generated in goat detects specifically Monkey IgM (mu chain). Immunoglobulin M is the largest antibody isotype and the first to be secreted against an initial exposure to antigen. IgM is predominantly produced in the spleen. Formed from covalently linking 5 immunoglobulins together, the approximate molecular weight of IgM is 900kDa and possesses 10 binding sites (though due to the size of most antigens, not all sites are capable of binding at once). Due to this large size, IgM is typically isolated to the serum. Anti-Monkey IgM antibody is ideal for investigators in Immunology, Microbiology, and Cell Biology.

**Application Note:** Anti-Monkey IgM (mu chain) peroxidase conjugated antibody is suitable for immunoblotting (western or dot blot), ELISA, immunoperoxidase electron microscopy and immunohistochemistry as well as other peroxidase antibody based enzymatic assays requiring lot-to-lot consistency.

**Purity and Specificity:** This product was prepared from monospecific antiserum by immunoaffinity chromatography using Monkey

IgM coupled to agarose beads followed by solid phase adsorption(s) to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum, Monkey IgM and Monkey Serum. No reaction was observed against other Monkey heavy or light chain proteins.

**Assay Dilutions:** All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

**ELISA:** 1:65,000 - 1:160,000

**Immunohistochemistry:** 1:500-1:2,500

**Western Blot:** 1:1,000-1:5,000

**Immunogen:** Monkey IgM whole molecule