
Streptavidin-HRP (Cat. No. M00091)

Size: 1 mg in 1 ml of storage buffer.

Molar Ratio of HRP/Streptavidin: 1.4:1.

Concentration: 1 mg/ml in PBS (pH 7.4) containing 10 mg/ml BSA and 0.01% Thimerosal.

Description: Streptavidin is a protein that has similar binding properties to avidin. It is isolated from *streptomyces avidinii*. Streptavidin has a molecular weight of 60 KD and has 4 subunits. Each subunit can bind one molecule of biotin. Biotin is a 244 dalton water-soluble vitamin. Streptavidin has an extremely high binding affinity ($K_d=10^{-15}$) for biotin.

Streptavidin-HRP (M00091) is coupled streptavidin with horseradish peroxidase (HRP). This highly sensitive detector conjugate binds to biotinylated primary or secondary antibodies in enzyme immunoassay, immunoblotting, immunohistochemistry, flow cytometry, hybridoma screening systems. This conjugate also binds to nucleic acids labeled with biotinylated nucleotide analogs in Southern or Northern blot.

Storage: Store at 4°C for short term (one-month). Aliquot and store at -20°C for longer storage. Avoid repeated freeze/thaw cycles. If slight precipitation occurs upon prolonged storage, clarify the solution by centrifugation before use.

Working Dilution: Working concentrations for specific applications should be determined by titration assay. Appropriate concentrations will be affected by several factors including primary antibody, antigen amount, sensitivity of detection method, temperature, and incubation time, etc. The following dilution ranges are just a guideline:

Dot blot: 1:2,000~1:10,000

Western blot: 1:2,000~1:20,000

ELISA: 1:50,000~1:200,000

Others: User optimized

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