Product Information Sheet

Peroxidase Conjugated Streptavidin

Catalog No. BA1088-1

Size 1 mg

Storage

Store at 4℃ for frequent use; at -20℃ for at least one year.

Avoid multiple freeze-thaw cycles.

Expiration

One year from the day of shipment.

Applications

Dot blot;

Western blot (WB);

Direct ELISA

Product Description

Streptavidin is a 47KD protein that extracted from streptomyces. Just like avidin, streptavidin has very high affinity to biotin molecule, one million times than the common affinity between antigen and antibody. Avidin is a alkalic protein (IP=10.0-10.5), and it can transfer to be a neutral protein through reconstruction. Isoelectric point of the streptavidin is near to neutrality, IP=6.0~6.5. Thus, streptavidin has very low non-specific absorption to tissue and cell. On the basis of streptavidin, the background of immunohistochemistry analysis is extremely low. With the method of polymeric labeling, streptavidin-peroxidase can form a complex which composed by about one hundred peroxidase and fifty streptavidin. And lots of enzymes can ensure the streptavidin-peroxidase with high sensitivity.

Contents

1 mg of peroxidase conjugated streptavidin; 0.01M PBS (pH7.4); 1% BSA.

Labeling Method

Streptavidin is conjugated to peroxidase by means of a method described by Wilson MB and Nakane PK.

(**Reference**: Wilson MB and Nakane PK. In Immunofluorescence and Related Staining Techniques, Elsevier/North Holland Biomedical Press, Amsterdam, P215 (1978).)

Preparation of Diluent Buffer

Use 0.01M TBS or 0.01M PBS to dilute. See “Recommended Dilutions” below for details.

Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl; 450μl of purified acetic acid or 700μl of concentrated hydrochloric acid to 1000ml H_2O and adjust pH to 7.2-7.6. Finally, adjust the total volume to 1L.

Preparation of 0.01 M PBS: Add 8.5g sodium chloride, 1.4g Na_2HPO_4 and 0.2g NaH_2PO_4 to 1000ml distilled water and adjust pH to 7.2-7.6. Finally, adjust the total volume to 1L.

Recommended Dilutions

Dot blot (Enhanced chemiluminescent coloration)	1:2000-4000
WB (DAB coloration)	1:500-3000
WB (Enhanced chemiluminescent coloration)	1:3000-10000
Direct ELISA (TMB coloration)	1:20000-40000

Optimal working dilutions must be determined by end user.

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