

Anti-Strep II Monoclonal Antibody

PRODUCT NAME: Anti-Strep II Monoclonal Antibody

CATALOG NUMBER: U33-316A

LOT NUMBER: U33022

ISOTYPE: Mouse IgG1

Clone NO: 1B20

SOURCE: Mouse Ascites

QUANTITY: 100 μ l/400 μ l

DESCRIPTION: Monoclonal antibodies are produced by immunizing mouse with synthetic peptide (WSHPQFEK) coupled to KLH.

APPLICATION: Western Blot, Immunoprecipitation

REAGENT: 1 \times PBS with 50% glycerol

PROTEIN CONCENTRATION: 0.5 mg/ml

RECOMMENDED ANTIBODY DILUTION: Western Blot: 1 μ g/ml

STORAGE/STABILITY: Antibody is recommended being stored at -20°C. Avoid repeated freeze-thaw cycle.

Background:

Streptavidin is a tetrameric protein expressed in *Streptomyces avidinii*. Because of its high affinity for the vitamin h-biotin, Streptavidin is commonly used in the fields of molecular biology and biotechnology. The Strep-tag was originally selected from a genetic library to specifically bind to a proteolytically truncated "core" version of streptavidin. Over the years, the Strep-tag was systemically optimized, to permit a greater flexibility in the choice of attachment site. Further, its interaction partner, Streptavidin was also optimized to increase peptide-binding capacity, which resulted in the development of Strep-Tactin. The so called Strep-tag system,



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consisting of Strep-tag and Strep-Tactin, has proven particularly useful for the functional isolation and analysis of protein complexes in proteome research.

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