



碧云天生物技术/Beyotime Biotechnology
 订热线: 400-1683301或800-8283301
 订货e-mail: order@beyotime.com
 技术咨询: info@beyotime.com
 网址: http://www.beyotime.com

辣根过氧化物酶标记Streptavidin

产品编号	产品名称	包装
A0303	辣根过氧化物酶标记Streptavidin	0.2ml

产品简介:

- 本辣根过氧化物酶标记Streptavidin (HRP-labeled Streptavidin)也称HRP-Streptavidin、Streptavidin-HRP或辣根过氧化物酶标记链霉亲和素,为进口分装,可以用于生物素(Biotin)标记的抗体、核酸、蛋白或其它生物素标记分子的检测。具体用途包括Western、ELISA、免疫组化或免疫细胞化学、原位杂交、Southern、Northern、EMSA等。
- 本HRP-Streptavidin用高纯度的Streptavidin和超纯的辣根过氧化物酶交联而成,确保产生最低的本底和最高的灵敏度。本产品的浓度为1mg/ml。
- Streptavidin的分子量为66kD,可以高度特异性地和生物素(Biotin)结合。Streptavidin和生物素的亲和常数为Kd=10-15M。Streptavidin是一个4聚体蛋白,可以同时结合4个生物素分子。Streptavidin的中文名为链霉亲和素,从Streptomyces adidinii中纯化获得,和鸡蛋清来源的Avidin(亲和素)在空间结构以及与生物素的亲和力方面具有高度的相似性。和Avidin不同的是,Streptavidin是一种非糖基化蛋白,并且基本不带电荷。Avidin的pI= ~10.5,在中性pH条件下呈碱性。由于Streptavidin和Avidin相比在中性条件下不带电荷,因此Streptavidin的非特异性结合比Avidin低很多,这样检测时的非特异性背景就低很多。因此目前在生物素检测时通常使用Streptavidin替代Avidin。
- 辣根过氧化物酶即horseradish peroxidase (HRP),可以在Western、EMSA、Southern或Northern等检测时催化ECL类试剂(如ECL、BeyoECL等)产生化学发光,可以在ELISA时催化TMB产生蓝色,也可以在免疫组化、免疫细胞化学或Western blot检测时催化DAB产生棕色沉淀。
- 本辣根过氧化物酶标记Streptavidin用于各种常规用途的推荐稀释比例参考下表,实际实验操作过程中需根据具体情况适当调节辣根过氧化物酶标记Streptavidin的稀释比例。对于Western,推荐的稀释范围为1:2000-10000。

WB	IHC/IC/ISH	ELISA	Southern/Northern	EMSA
1:2000-10000	1:200-500	1:2000-10000	1:2000-5000	1:2000-5000

WB, Western blot; IHC, Immunohistochemistry; IC, Immunocytochemistry; ISH, in situ hybridization.

- 本产品如果用于常规的Western检测,以每次检测需10毫升1:2000稀释的本产品计,可以检测40次。

包装清单:

产品编号	产品名称	包装
A0303	辣根过氧化物酶标记Streptavidin	0.2ml
—	说明书	1份

保存条件:

-20°C保存,一年有效。

注意事项:

- 叠氮钠会抑制辣根过氧化物酶的活性,在含有辣根过氧化物酶的溶液中不可加入叠氮钠。
- 本产品仅限于专业人员的科学研究用,不得用于临床诊断或治疗,不得用于食品或药品,不得存放于普通住宅内。
- 为了您的安全和健康,请穿实验服并戴一次性手套操作。

使用说明:

1. Western、ELISA、免疫组化或免疫细胞化学、原位杂交、Southern、Northern、EMSA等请参考相关实验步骤进行。起始稀释浓度按照产品简介中推荐的稀释比例进行稀释。

使用本产品的文献:

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