自发荧光淬灭剂
Auto Fluo Quencher
货号：C1212

产品描述：

自发荧光是在免疫荧光检测过程中产生的与目的信号无关的背景荧光信号的统称，许多组织或细胞都会产生可透过各种波长滤光片的内源性自发荧光，显著干扰抗体标记荧光观察甚至导致免疫组化染色失败。**普利莱自发荧光淬灭剂采用单一组分，可淬灭各类组织和细胞内的自发荧光**，试剂中的离子通过碰撞方式捕获自发荧光光源分子发出的电子，阻止该电子从激发态回归基态和能量释放，从而淬灭自发荧光。采用优化的孵育时间可最大限度地消除自发荧光而不明显影响抗体标记的荧光。

产品特点：

- **经过优化的单一试剂，步骤简单**
- **目标荧光染色之后再进行孵育**
- **效果显著，不影响目的抗体荧光强度**

适用范围：

各种组织、细胞免疫荧光染色的自发荧光消除。特别适用于**神经组织**自发荧光淬灭。

产品组成：

产品名称	规格	储存和效期
自发荧光淬灭剂	20ml	2-8°C保存，一年有效
	50ml	

操作步骤：

以下步骤**在免疫荧光染色完毕之后**（而非在荧光染色完毕之前）执行。

1.吸去PBS或相应洗涤缓冲液，用蒸馏水短暂冲洗组织切片或细胞培养板中的细胞；

2.加入适量但充足的自发荧光淬灭剂覆盖组织切片（一般20-40ul），室温孵育10-90min；

注意：不同组织或细胞需优化孵育时间以便最大限度淬灭自发荧光而不明显影响抗体标记的荧光；

3.吸去自发荧光淬灭剂，用蒸馏水短暂冲洗；

4.吸去蒸馏水，用PBS覆盖组织切片或培养板中的细胞；

5.封片。建议使用抗荧光衰减封片剂（C1210）。该封片剂可防止抗体标记荧光衰退；

6.荧光显微镜观察。

产品说明：

1.不同物种不同类型组织的自发荧光具有不同的特征，使用自发荧光淬灭剂的效果可能会有差别；

2.任何针对自发荧光的淬灭，将会在一定程度上降低抗体荧光强度。所幸的是该试剂对自发荧光的淬灭程度远远超出抗体荧光强度的降低，因而能在二者之间获得较好的平衡；

3.由于不很清楚的原因，**本试剂对于消除脑脊髓神经组织的自发荧光具有更好的效果**；

4.为获得最佳效果，必需优化孵育时间以便最大限度淬灭某一特定组织的自发荧光而不明显影响抗体标记的荧光（步骤2）。重要的标本应在确定最佳孵育时间之后使用本试剂；

5.进行优化时，**可取数张组织切片或位于培养皿中的细胞，在免疫荧光组化染色完毕之后加入组织自发荧光淬灭剂，孵育5、10、30、60、90分钟等不同时间，冲洗后观察荧光。如果自发荧光仍然很强，可延长孵育时间；如果孵育时间小于10分钟而荧光消退十分明显，可将孵育时间减少为1-5分钟，或者取少量的自发荧光淬灭剂加等份的双蒸水稀释，然后孵育10-90分钟进行优化**；

6.**自发荧光淬灭剂必须在完成免疫荧光组化染色后使用，否则将严重降低抗体荧光**。

相关产品推荐

货号	产品名称
C1210	抗荧光衰减封片剂(不含DAPI,可复染)
C1400	组织冰冻切片OCT包埋剂
B1057	4%组织细胞固定液
C1245	免疫染色(非荧光)—抗稀释液

使用本产品发表SCI文章节选：

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2.Shi Z, Liu J, Zhao Y,et al. ASXL1 mutations accelerate bone marrow fibrosis via EGR1-TNFA axis-mediated neoplastic fibrocyte generation in myeloproliferative neoplasms. Haematologica. 2023 May 1;108(5):1359-1373 **(IF:11.0)**
3.He, Z., Yu, C., Pan, Z. et al. Erythrocyte membrane with CLIPPKF as biomimetic nanodecoy traps merozoites and attaches to infected red blood cells to prevent Plasmodium infection. J Nanobiotechnol 21, 15 (2023) **(IF:10.2)**
4.Chen, Jiazheng, Cui, Zichen, Wang, Yi,et al. Cyclic Polypeptide D7 Protects Bone Marrow Mesenchymal Cells and Promotes Chondrogenesis during Osteonecrosis of the Femoral Head via Growth Differentiation Factor 15-Mediated Redox Signaling, Oxidative Medicine and Cellular Longevity, 2022, 3182368, 16 pages, 2022 **(IF:7.3)**
5.Cao Q, Xiao X, Tao C, et al. Efficient clearance of periodontitis pathogens by S. gordonii membrane-coated H2O2 self-supplied nanocomposites in a “Jenga” style. Biomater Sci. 2023; 11: 5680-5693 **(IF:6.6)**
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10. He Y, Zhou S, Liu H, et al. Indoleamine 2, 3-Dioxgenase Transfected Mesenchymal Stem Cells Induce Kidney Allograft Tolerance by Increasing the Production and Function of Regulatory T Cells. Transplantation. 2015 Sep;99(9):1829-38
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12. Zhang H, Chen Q, Hu D,et al. Manipulating HGF signaling reshapes the cirrhotic liver niche and fills a therapeutic gap in regeneration mediated by transplanted stem cells. Exp Cell Res. 2024 Jan 1;434(1):113867
13. Su W, Yang L, Luo X,et al. Elimination of Autofluorescence in Archival Formaldehyde-Fixed, Paraffin-Embedded Bone Marrow Biopsies. Arch Pathol Lab Med. 2019 Mar;143(3):362-369
14. Xu W, Jiang S, Chen Q,et al. Systemically Transplanted Bone Marrow-derived Cells Contribute to Dental Pulp Regeneration in a Chimeric Mouse Model. J Endod. 2016 Feb;42(2):263-8
15. Tang, X., Zheng, H., Xu, H. et al. NR4A1 Affects Endometrial Receptivity by Participating in Mesenchymal–Epithelial Transition of Endometrial Stromal Cells. Reprod. Sci. 29, 133–142 (2022)
16. Wang Y, Liu G, Zhang J, et al. Overexpression of Cyclophilin A in Human Periapical Lesions. J Endod. 2019 Dec;45(12):1496-1503
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19. Zheng, M., Hu, K., Liu, W. et al. Proteomic analysis of different period excretory secretory products from Clonorchis sinensis adult worms: molecular characterization, immunolocalization, and serological reactivity of two excretory secretory antigens—methionine aminopeptidase 2 and acid phosphatase. Parasitol Res 112, 1287–1297 (2013)
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