小鼠 IgG ELISA 检测试剂盒

产品编号：8304

包被抗小鼠 IgG Fc 抗体的酶标板中加入腹水或杂交瘤培养上清，腹水或培养上清中的小鼠 IgG 与酶标板中的抗体结合，洗板洗去未结合的部分，再加入 HRP 标记的抗小鼠 IgG 抗体，洗去未结合的部分，加底物 TMB 显色，TMB 的颜色与小鼠 IgG 的浓度成正比，通过标准品的检测结果绘制标准曲线，计算未知标本的浓度。

杂交瘤在选择培养后大约 10-14 天，通过细胞传代换液 HT 培养基，使氨基蝶呤不断被稀释，通过 2-3 周过渡到普通培养基培养。

本产品用于检测小鼠腹水或杂交瘤培养上清中 IgG 的浓度

试剂组分

1. 抗小鼠 IgG（Fc）包被板
2. 小鼠 IgG 标准品
3. HRP 标记抗鼠 IgG（抗小鼠 κ -POD, 抗小鼠 λ -POD）
4. 洗涤液（20x）
5. TMB 显色液
6. 终止液

规格

100ml/瓶

运输、储存和有效期

冷藏运输，-20°C 储存，避光，在有效期内使用。 正常储存条件下自生产之日起有效期 2 年。

使用方法

标准曲线

1000ng/ml, 200ng/ml, 100ng/ml, 50ng/ml, 25ng/ml, 12.5ng/ml, 6.25ng/ml

稀释培养上清（大约 1:100～1:1000）和腹水（1:10,000～1:100,000），使其小鼠 IgG 的水平落在 25 - 80 ng/ml

The mouse-IgG ELISA shows no cross-reactivity with other Ig-classes from mouse or bovine-IgG (0.1 %). Signals of all IgG-subclasses from mouse (IgG1, IgG2a, IgG2b and IgG3) can be detected independently of the type of light chains (or). In contrast, other Ig-subclasses (IgM, IgA, etc.) will not be detected with this assay

In the procedure described the assay shows a detection limit of approx. 10 ng IgG/ml.

3. Troubleshooting

Please refer to the following table.

A further reason for a high background and/or too weak color development may be the quality of the microplates. Possibly change the lot or the supplier.

	Possible cause	Recommendation
No or too weak color development.	Capture antibody is not active (*e.g.*,, due to repeated thawing and freezing).	• Use a fresh (not yet thawed) aliquot of Capture antibody. • Increase the concentration of the Capture antibody or of the Conjugate solution, respectively (see "Sensitivity").
	Standard graph is too shallow.	Use a fresh (not yet thawed) aliquot (standard).
	Values of an antibody sample to be measured is obviously too low	• The antibody has been treated with denaturing agents (see "stressed" antibodies). Also commercially available antibodies may have been produced under denaturing conditions.
	Conjugate solution or Conjugate dilution is inactivated by incorrect storage or storage for too long periods.	• Prepare fresh Conjugate solution or Conjugate dilution. • Store at +2 to +8°C, do not freeze. • Increase the concentration of the Capture antibody or of the Conjugate solution, respectively (see “Sensitivity”).
	Substrate solution has been incorrectly stored or is too old.	• Prepare fresh Substrate solution. • Store in dark at +2 to +8°C.
High background	Substrate solution is too old (color changes from light green to dark green).	• Prepare fresh Substrate solution. • $E_{405\ nm}$/1 cm should be <0.16.
	Inadequate blocking.	Extend Blocking step to 30 min.
	The monoclonal antibodies (*e.g.*, anti- collagen) bind to the peptides in the Blocking reagent.	Replace Blocking reagent by: Tris-HCl, 50 mM; NaCl, 150 mM; pH 7.5; bovine serum albumin, 1% (w/v)