

Recombinant

DGRmAb®

**Renilla Luciferase (DGR11178) Rabbit mAb (PBS Only)**

db11041-PBS

Package : 100µg

**Product Name** : Renilla Luciferase (DGR11178) Rabbit mAb (PBS Only)**Cat.No.:** db11041-PBS**Synonyms** : Renilla-luciferin 2-monooxygenase; Renilla-type luciferase**Application** : WB, ICC/IF, FC**Reactivity** : Other**Host species** : Rabbit**Background**

Upon binding the substrate, the enzyme catalyzes an oxygenation, producing a very short-lived hydroperoxide that cyclizes into a dioxetanone structure, which collapses, releasing a CO<sub>2</sub> molecule. The spontaneous breakdown of the dioxetanone releases the energy (about 50 kcal/mole) that is necessary to generate the excited state of the coelenteramide product, which is the singlet form of the monoanion. In vivo the product undergoes the process of nonradiative energy transfer to an accessory protein, a green fluorescent protein (GFP), which results in green bioluminescence. In vitro, in the absence of GFP, the product emits blue light.

**Immunogen**

A synthetic peptide of Renilla Luciferase

**Swiss Prot**

P27652

**Synonyms**

Renilla-luciferin 2-monooxygenase; Renilla-type luciferase

**Reactivity**

Other

**Application**

WB, ICC/IF, FC

**Calculated MW**

36 kDa

**Observed MW**

36 kDa

**Host species**

Rabbit

**Clonality**

Monoclonal

**Clonality No.**

DGR11178

**Isotype**

IgG

**Purity**

Affinity Purification

**Conjugation**

Un-conjugated

**Concentration**

1 mg/mL

**Formulation**

PBS Only

**Storage Stability**

Store at -20°C. Recommended to aliquot into single-use vials. Supplied in 1X PBS (pH 7.4). BSA and Azide Free. Stable for 12 months from date of receipt.