

Recombinant

DGRmAb®

Renilla Luciferase (DGR11178) Rabbit mAb

db11041

Package : 10µL 20µL 100µL 500µL 1mL

Product Name : Renilla Luciferase (DGR11178) Rabbit mAb

Cat.No.: db11041

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 CO₂ 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

Recommended dilution

WB: 1:1000-1:5000
 ICC/IF: 1:200-1:1000
 FC: 1:50

Calculated MW

36 kDa

Observed MW

36 kDa

Host species

Rabbit

Clonality

Monoclonal

Clonality No.

DGR11178

Isotype

IgG

Purity	Affinity Purification
Conjugation	Un-conjugated
Storage Stability	Store at -20°C. Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% sodium azide and 0.05% BSA. Stable for 12 months from date of receipt.