

Recombinant

DGRmAb®

Renilla Luciferase (DGR15022) Rabbit mAb

db11042

Package : 10μL 20μL 100μL 500μL 1mL

Product Name : Renilla Luciferase (DGR15022) Rabbit mAb**Cat.No.:** db11042**Synonyms** : Renilla Luciferase**Application** : WB, ICC/IF**Reactivity** : Renilla reniformis**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 Luciferase

Reactivity

Renilla reniformis

Application

WB, ICC/IF

Recommended dilutionWB: 1:1000
ICC/IF: 1:500-1:1000**Calculated MW**

36 kDa

Observed MW

According to the fused protein

Host species

Rabbit

Clonality

Monoclonal

Clonality No.

DGR15022

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.