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Luciferase Mouse mAb

Catalog No.: A29536

Basic Information

Observed MW
61 kDa

Calculated MW
61 kDa

Category
Primary antibody

Applications
WB,ELISA

Cross-Reactivity
Firefly

CloneNo number
AMC0974

Background

Firefly luciferase (FLuc) is a ~61 kDa monomeric enzyme encoded by the luc gene, primarily expressed in the light-producing organs of fireflies such as Photinus pyralis. It functions as an ATP-dependent monooxygenase, catalyzing D-luciferin oxidation via a luciferyl-adenylate intermediate to yield excited-state oxyluciferin, which emits yellow-green light (λmax ~550–570 nm) upon relaxation. Owing to its high quantum yield and favorable signal-to-background ratio, FLuc has become one of the most widely used reporter proteins in gene expression assays, ATP quantification, and in vivo bioluminescence imaging.

Recommended Dilutions

WB	1:1000 - 1:5000
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)，a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
/

Swiss Prot
P08659

Immunogen
This information is considered to be commercially sensitive.

Synonyms

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

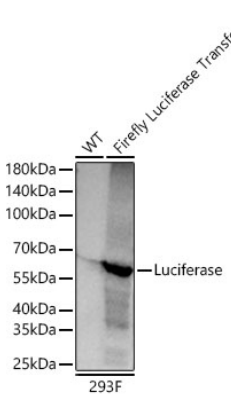
Source
Mouse

Isotype
IgG1

Purification
Affinity purification

Storage
Store at -20℃

Validation Data



Western blot analysis of lysates from wild type (WT) and 293F cells transfected with Firefly Luciferase using Luciferase Mouse mAb (A29536) at 1:1000 dilution incubated overnight at 4℃|Secondary antibody: HRP-conjugated Goat anti-Mouse IgG (H+L) (AS003) at 1:10000 dilution.|Lysates/proteins: 20 µg per lane.| Blocking buffer: 3% nonfat dry milk in TBST.| Detection: ECL Basic Kit (RM00020).| Exposure time: 1 s.