



## Datasheet for ABIN5706870 anti-Luciferase antibody



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### 1 Publication

#### Overview

Quantity:	100 µL
Target:	Luciferase
Reactivity:	Vibrio fischeri
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Luciferase antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP)

#### Product Details

Immunogen:	Immunogen: Luciferase [Photobacterium fischerii] Immunogen Type: Native Protein
Characteristics:	Synonyms: rabbit anti-Luciferase Antibody, Alkanal monooxygenase alpha chain, Bacterial luciferase alpha chain, luxA, Alkanal monooxygenase beta chain, Bacterial luciferase beta chain, luxB Background: Anti luciferase Antibody recognizes luciferase that is commonly used in biological research as a reporter to assess the transcriptional activity in cells that are transfected with a genetic construct containing the luciferase gene under the control of a promoter of interest. Luciferase can also be used to detect the level of cellular ATP in cell viability assays or for kinase activity assays. Additionally proluminescent molecules that are converted to luciferin upon activity of a particular enzyme can be used to detect enzyme activity in coupled or two-step luciferase assays. Such substrates have been used to detect caspase activity and cytochrome P450 activity, among others.

## Product Details

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Gene Name: LUXB\_VIBFI, luxA

**Purification:** This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against purified and partially purified Luciferase [*Photobacterium fischerii*]. Cross reactivity against Luciferase from other tissues and species may occur but have not been specifically determined.

## Target Details

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**Target:** Luciferase

**Abstract:** [Luciferase Products](#)

**Gene ID:** 3280269

**UniProt:** [P29238](#), [P19907](#)

## Application Details

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**Application Notes:** Immunohistochemistry Dilution: 1:500 - 1:2,500  
Application Note: Luciferase Antibody is suitable for western blotting, immunohistochemistry, immunoprecipitation, and ELISA. Researchers should determine optimal titers for applications that are not stated below.  
Western Blot Dilution: 1:1,000 - 1:5,000  
Immunoprecipitation Dilution: 1:100  
ELISA Dilution: 1:5,000 - 1:25,000

**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Reconstitution:** Reconstitution Volume: 100 µL  
Reconstitution Buffer: Restore with deionized water (or equivalent)

**Concentration:** 75 mg/mL

**Buffer:** Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2  
Stabilizer: None

**Preservative:** Sodium azide

**Precaution of Use:** This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

## Handling

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should be handled by trained staff only.

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Storage: 4 °C,-20 °C

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Expiry Date: 12 months

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## Publications

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Product cited in: Fowler, Stack, Jiao, Lara-Tejero, Galán: "Alternate subunit assembly diversifies the function of a bacterial toxin." in: **Nature communications**, Vol. 10, Issue 1, pp. 3684, (2019) ([PubMed](#)).

Chang, Jin, Jiao, Galán: "Unique features in the intracellular transport of typhoid toxin revealed by a genome-wide screen." in: **PLoS pathogens**, Vol. 15, Issue 4, pp. e1007704, (2019) ([PubMed](#)).

Wang, Shaw, Hammond, Sutterwala, Rayamajhi, Shirey, Perkins, Bonventre, Velayutham, Evans, Rodino, VieBrock, Scanlon, Carbonetti, Carlyon, Miao, McBride, Kotsyfakis, Pedra: "The Prostaglandin E2-EP3 Receptor Axis Regulates Anaplasma phagocytophilum-Mediated NLRC4 Inflammasome Activation." in: **PLoS pathogens**, Vol. 12, Issue 8, pp. e1005803, (2016) ([PubMed](#)).

Lamb, Rahman, McFadden: "Recombinant myxoma virus lacking all poxvirus ankyrin-repeat proteins stimulates multiple cellular anti-viral pathways and exhibits a severe decrease in virulence." in: **Virology**, Vol. 464-465, pp. 134-145, (2015) ([PubMed](#)).