# Guanylyl Cyclase beta 1 (GUCY1B3) Monoclonal Antibody

**CAB3687**

## Description

This Guanylyl Cyclase beta 1 (GUCY1B3) Monoclonal Antibody is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

## Product Information

| | |
|---|---|
| **SKU:** | CAB3687 |
| **Contents:** | 20 µL, 100 µL<br>Bradford Reagent: 1 vial (2ml) |
| **Category:** | Monoclonal Antibody |
| **Synonyms:** | GUCB3, GC-SB3, GUC1B3, GUCSB3, GUCY1B3, GC-S-beta-1, Guanylyl Cyclase beta 1 (GUCY1B3) |
| **Clone:** | ARC2071 |
| **Applications:** | WB IHC-P IF/ICC ELISA |
| **Conjugation:** | Unconjugated |
| **Reactivity:** | Human, Mouse, Rat |

## Antibody Data

| | |
|---|---|
| **Gene ID:** | 2983 |
| **Uniprot:** | AB_2863116 |
| **Host Species:** | Rabbit |
| **Purification:** | Affinity purification |
| **Observed MW:** | 71kDa |
| **Calculated MW:** | 71kDa |

## Preparation & Storage

**Storage:** Store at -20°C. Avoid freeze / thaw cycles. Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Store Bradford Reagent at Room Temperature for 1 Year.

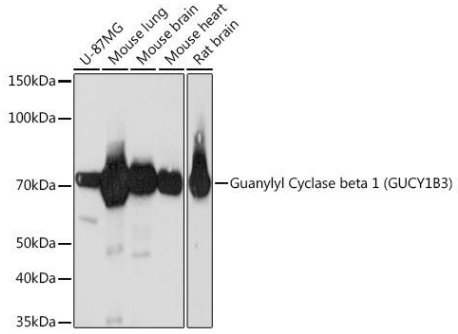
**Positive Sample:** U-87MG, Mouse lung, Mouse brain, Mouse heart, Rat brain

**Recommended Dilutions:**

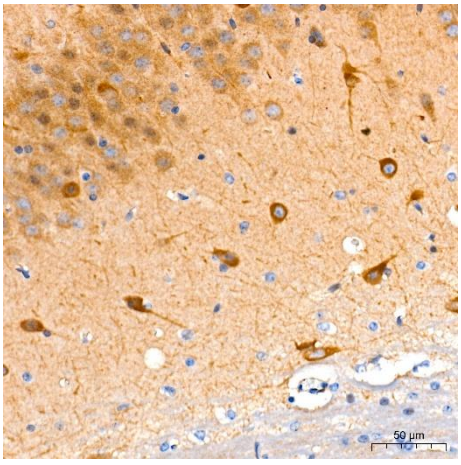
| | |
|---|---|
| **WB** | 1:1000 - 1:6000 |
| **IHC-P** | 1:200 - 1:800 |
| **IF/ICC** | 1:100 - 1:400 |
| **ELISA** | Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements. |

**Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit https://www.assaygenie.com/bradford-protein-assay-protocol/ to view the full protocol

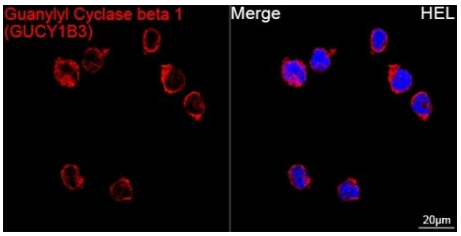
## Validation Data




Western blot analysis of various lysates using Guanylyl Cyclase beta 1 (GUCY1B3) (GUCY1B3) Rabbit mAb (CAB3687) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (CABS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (AbGn00020). Exposure time: 3min.




Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using Guanylyl Cyclase beta 1 (GUCY1B3) Rabbit mAb (CAB3687) at a dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.




Confocal imaging of HEL cells using Guanylyl Cyclase beta 1 (GUCY1B3) Rabbit mAb (CAB3687, dilution 1:200) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (CABS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.