

Anti-GRK2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

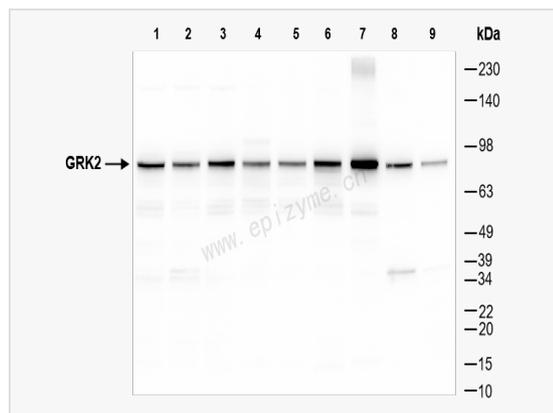
Catalog # R014595

Product Information

| | |
|-------------|---|
| Application | WB, IF (Cell)/ICC, ELISA |
| Reactivity | Rat, Mouse, Human |
| Dilution | WB 1:1,000~1:2,000; IF 1:100~1:200 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 84S54K07 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human GRK2 |
| Format | Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-GRK2 Rabbit mAb [84S54K07] is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

| | |
|-----------------|--|
| Synonyms | ADRBK1, Adrenergic beta receptor kinase 1, ARBK1_HUMAN, BARK, BARK1, Beta adrenergic receptor kinase 1, Beta ARK 1, Beta ARK1, Beta-adrenergic receptor kinase 1, Beta-ARK-1, FLJ16718, G protein coupled receptor kinase 2, G-protein coupled receptor kinase 2, GRK2. |
| Calculated MW | Calculated MW: 80 kDa; Observed MW: 80 kDa |
| Uniprot ID | P25098 |
| Gene ID | 156 |
| Background | GRK2 kinase activity and cellular localization are tightly regulated by interactions with activated receptors, G-beta and G-gamma subunits, adaptor proteins, phospholipids, caveolin and calmodulin, as well as by phosphorylation. PKC phosphorylation enhances GRK2 activity by promoting its membrane localization and by abolishing the inhibitory association of calmodulin. |
| Tissue Location | Expressed in peripheral blood leukocytes. |



Western Blot - Anti-GRK2 Rabbit mAb [84S54K07]

All lanes: R014595 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: A431 (Human epidermoid teratoma cell line) whole cell lysates

Lane 5: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 6: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 7: Rat brain whole tissue lysates

Lane 8: Rat heart whole tissue lysates

Lane 9: Rat kidney whole tissue lysates

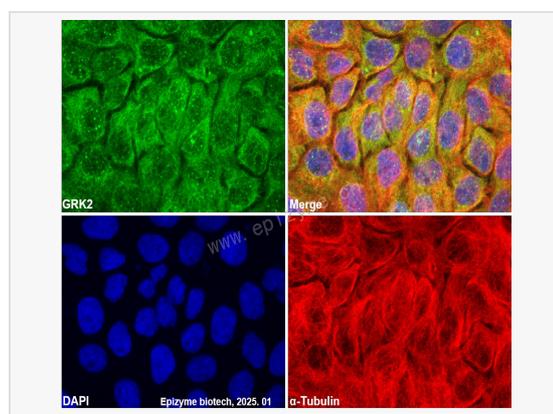
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 80 kDa

Observed band size: 80 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-GRK2 Rabbit mAb [84S54K07]

Sample: A431 cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014595 at 1:100 dilution and alpha-tubulin Mouse Monoclonal

Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and

Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).