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## Datasheet for ABIN7043505 anti-KCNQ3 antibody (C-Term, Intracellular)





#### Overview

| Quantity:            | 25 µL  |
|----------------------|--|
| Target:              | KCNQ3  |
| Binding Specificity: | AA 668-686, C-Term, Intracellular  |
| Reactivity:          | Mouse, Rat   |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This KCNQ3 antibody is un-conjugated   |
| Application:         | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF),<br>Immunocytochemistry (ICC), Immunoprecipitation (IP) |
| Product Details      |  |
| Immunogen:           | Immunogen: Synthetic peptide   |
|                      | Immunogen Sequence: AEGEKKEDNRYSDLKTIIC, corresponding to amino acid residues 668-   |
|                      | 686 of rat KCNQ3   |

| Isotype:         | lgG  |
|------------------|--|
| Characteristics: | Anti-KCNQ3 Antibody (ABIN7043505, ABIN7044961 and ABIN7044962)) is a highly specific       |
|                  | antibody directed against an epitope of the rat KV7.3 channel. The antibody can be used in |
|                  | western blot, immunoprecipitation, immunohistochemistry, and immunocytochemistry           |
|                  | applications. It has been designed to recognize KCNQ3 from rat, human, and mouse samples.  |
| Durification:    | Affinity purified on immobilized antigen   |

Purification: Affinity purified on immobilized antigen.

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### Target Details

| Target:           | KCNQ3  |
|-------------------|--|
| Alternative Name: | KCNQ3 (KCNQ3 Products)   |
| Background:       | Alternative names: KCNQ3, KV7.3, Potassium voltage-gated channel subfamily KQT member 3, BFNC2 |
| Gene ID:          | 29682  |
| NCBI Accession:   | NM_004519  |
| UniProt:          | 088944   |

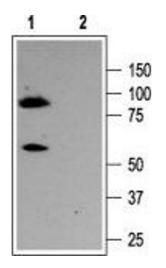
## Application Details

| Application Notes: | Optimal working dilution should be determined by the investigator. |
|--------------------|--|
| Restrictions:      | For Research Use only  |

#### Handling

| Format:            | Lyophilized  |
|--------------------|--|
| Reconstitution:    | 25 $\mu L$ , 50 $\mu L$ or 0.2 mL double distilled water (DDW), depending on the sample size.  |
| Concentration:     | 0.8 mg/mL  |
| Buffer:            | Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 5 % sucrose, 0.025 % Sodium azide.   |
| Preservative:      | Sodium azide   |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.   |
| Storage:           | RT,4 °C,-20 °C   |
| Storage Comment:   | Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature.<br>Upon arrival, it should be stored at -20°C.<br>Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week.<br>For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and<br>thawing. Centrifuge all antibody preparations before use (10000 x g 5 min). |

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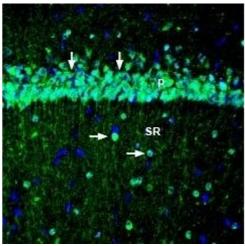


#### Western Blotting

**Image 1.** Western blot analysis of rat brain membranes: -1. Anti-KCNQ3 Antibody (ABIN7043505, ABIN7044961 and ABIN7044962), (1:200). 2. Anti-KCNQ3 Antibody, preincubated with KCNQ3 Blocking Peptide (#BLP-PC051).



**Image 2.** Expression of KCNQ3 in rat hippocampus -Immunohistochemical staining of perfusion-fixed frozen rat brain sections with Anti-KCNQ3 Antibody (ABIN7043505, ABIN7044961 and ABIN7044962), (1:200), followed by goat anti-rabbit-AlexaFluor-488. KCNQ3 immunoreactivity (green) appears in cells of the pyramidal layer (P, vertical arrows) and cells of the stratum radiatum (SR, horizontal arrows). Cell nuclei are stained with DAPI (blue).



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