

For Research Use Only

# KCND3 Recombinant antibody

Catalog Number: 83640-5-RR



## Basic Information

Catalog Number:

83640-5-RR

Size:

1000  $\mu$ g/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG22183

GenBank Accession Number:

BC113477

GeneID (NCBI):

3752

UNIPROT ID:

Q9UK17

Full Name:

potassium voltage-gated channel,  
Shal-related subfamily, member 3

Calculated MW:

655 aa, 73 kDa

Observed MW:

73 kDa

Purification Method:

Protein A purification

CloneNo.:

240578F12

Recommended Dilutions:

WB 1:500-1:2000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, rat

Positive Controls:

WB : rat brain tissue,

## Background Information

KCND3 gene encodes the voltage-gated potassium ion channel subfamily D member 3, a six trans-membrane protein (Kv4.3), involved in the transient outward K<sup>+</sup> current. KCND3 gene defect causes both cardiological and neurological syndromes. Kv4.3 contributes to the cardiac transient outward potassium current (I<sub>to1</sub>), the main contributing current to the repolarizing phase 1 of the cardiac action potential.

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

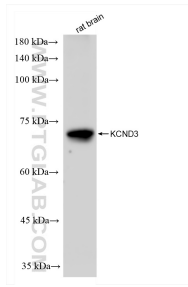
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

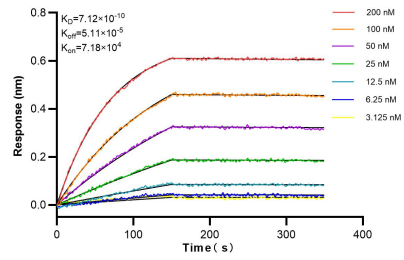
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## Selected Validation Data



rat brain tissue were subjected to SDS PAGE followed by western blot with 83640-5-RR (KCND3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83640-5-RR against Human KCND3 were performed. The affinity constant is 0.712 nM.