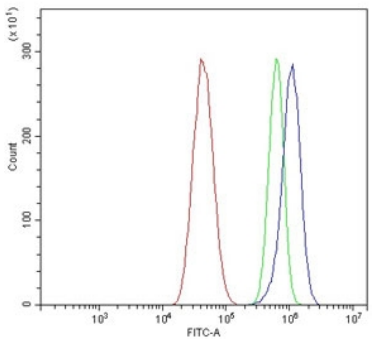
# KCNA1 Antibody / Kv1.1 potassium channel (RQ6138)

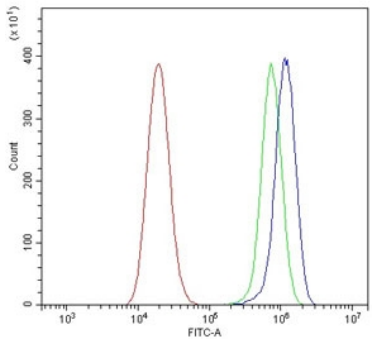
| Catalog No. | Formulation | Size |
|---|---|---|
| RQ6138 | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

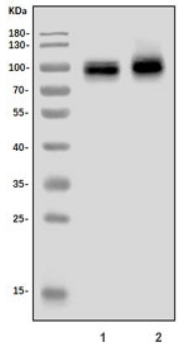
| | |
|---|---|
| **Availability** | 1-3 business days |
| **Species Reactivity** | Human, Mouse, Rat |
| **Format** | Antigen affinity purified |
| **Clonality** | Polyclonal (rabbit origin) |
| **Isotype** | Rabbit IgG |
| **Purity** | Affinity purified |
| **Buffer** | Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide |
| **UniProt** | Q09470 |
| **Applications** | Western blot : 1-2ug/ml<br>Flow cytometry : 1-3ug/million cells<br>Direct ELISA : 0.1-0.5ug/ml |
| **Limitations** | This KCNA1 antibody is available for research use only. |




Flow cytometry testing of human U-87 MG cells with KCNA1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= KCNA1 antibody.




Flow cytometry testing of human U-2 OS cells with KCNA1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= KCNA1 antibody.




Western blot testing of 1) rat brain and 2) mouse brain lysate with KCNA1 antibody. Expected molecular weight: 56-85 kDa depending on glycosylation level.

## Description

Potassium voltage-gated channel subfamily A member 1, also known as Kv1.1, is a shaker related voltage-gated potassium channel that in humans is encoded by the KCNA1 gene. It is mapped to 12p13.32. The protein functions as a potassium selective channel through which the potassium ion may pass through in consensus with the electrochemical gradient. The N-terminus of the channel is associated with beta subunits that can modify the inactivation properties of the channel as well as affect expression levels. The C-terminus of the channel is complexed to a PDZ domain protein that is responsible for channel targeting.

## Application Notes

Optimal dilution of the KCNA1 antibody should be determined by the researcher.

## Immunogen

A human recombinant partial protein (amino acids M1-V495) was used as the immunogen for the KCNA1 antibody.

## Storage

After reconstitution, the KCNA1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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