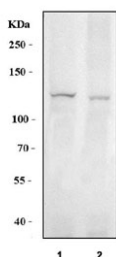


## BK channel Antibody / KCNMA1 / Maxi K Channel (R31640)

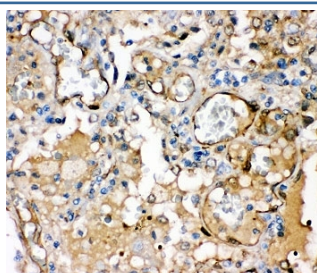
| Catalog No. | Formulation                                           | Size   |
|-------------|-------------------------------------------------------|--------|
| R31640      | 0.5mg/ml if reconstituted with 0.2ml sterile DI water | 100 ug |

**Bulk quote request**

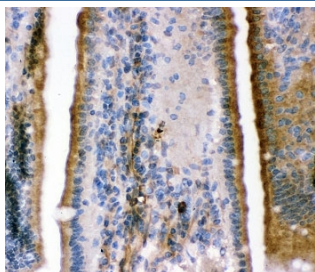
|                           |                                                               |
|---------------------------|---------------------------------------------------------------|
| <b>Availability</b>       | 1-3 business days                                             |
| <b>Species Reactivity</b> | Human, Mouse, Rat                                             |
| <b>Format</b>             | Antigen affinity purified                                     |
| <b>Clonality</b>          | Polyclonal (rabbit origin)                                    |
| <b>Isotype</b>            | Rabbit IgG                                                    |
| <b>Purity</b>             | Antigen affinity                                              |
| <b>Buffer</b>             | Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide |
| <b>Gene ID</b>            | 3778                                                          |
| <b>Applications</b>       | Western Blot : 0.5-1ug/ml<br>IHC (FFPE) : 0.5-1ug/ml          |
| <b>Limitations</b>        | This BK channel antibody is available for research use only.  |



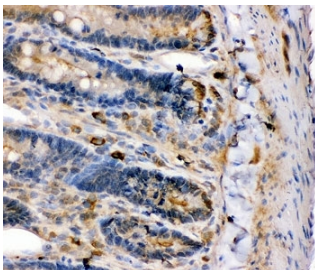
Western blot testing of human 1) PC-3 and 2) U-87 MG cell lysate with BK channel antibody. Predicted molecular weight: 130-140 kDa (multiple isoforms).



IHC-P: BK channel antibody testing of human lung cancer tissue



IHC-P: BK channel antibody testing of mouse intestine tissue



IHC-P: BK channel antibody testing of rat intestine tissue

## Description

Calcium-activated potassium channel subunit alpha-1 also known as KCa1.1, BK channel and Maxi K, is a voltage gated potassium channel encoded by the KCNMA1 gene and characterized by its large conductance of potassium ions ( $K^+$ ) through cell membranes. This gene is located on 10q22.3. BK channels are activated (opened) by changes in membrane electrical potential and/or by increases in concentration of intracellular calcium ion ( $Ca^{2+}$ ). They are essential for the regulation of several key physiological processes including smooth muscle tone and neuronal excitability. BK channels also contribute to the behavioral effects of ethanol in the worm *C. elegans* under high concentrations ( $> 100$  mM, or approximately 0.50% BAC). It remains to be determined if they contribute to intoxication in humans.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the BK channel antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

Human partial recombinant protein (AA 124-467 of KCNMA1) was used as the immunogen for this BK channel antibody.

## Storage

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