# KCNQ4 Polyclonal Antibody

**catalog number:** E-AB-16544

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

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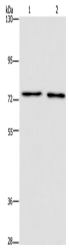
|---|---|
| **Reactivity** | Human;Mouse |
| **Immunogen** | Synthetic peptide of human KCNQ4 |
| **Host** | Rabbit |
| **Isotype** | IgG |
| **Purification** | Affinity purification |
| **Conjugation** | Unconjugated |
| **Buffer** | Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer and 50% glycerol. |

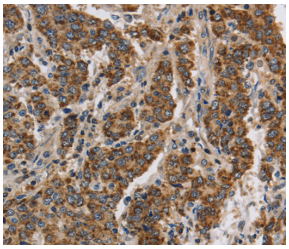
| Applications | Recommended Dilution |
|---|---|
| **WB** | 1:200-1:1000 |
| **IHC** | 1:50-1:200 |

## Data

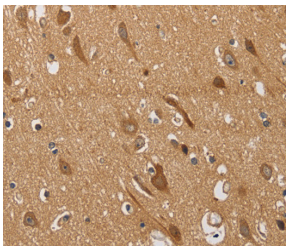


Western Blot analysis of Human fetal brain and Mouse brain tissue using KCNQ4 Polyclonal Antibody at dilution of 1:200

**Calculated-MW:77 kDa**



Immunohistochemistry of paraffin-embedded Human liver cancer using KCNQ4 Polyclonal Antibody at dilution of 1:40



Immunohistochemistry of paraffin-embedded Human brain using KCNQ4 Polyclonal Antibody at dilution of 1:40

## Preparation & Storage

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|---|---|
| **Storage** | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. |
| **Shipping** | The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended. |

## Background

The protein encoded by this gene forms a potassium channel that is thought to play a critical role in the regulation of neuronal excitability, particularly in sensory cells of the cochlea. The current generated by this channel is inhibited by M1 muscarinic acetylcholine receptors and activated by retigabine, a novel anti-convulsant drug. The encoded protein can form a homomultimeric potassium channel or possibly a heteromultimeric channel in association with the protein encoded by the KCNQ3 gene. Defects in this gene are a cause of nonsyndromic sensorineural deafness type 2 (DFNA 2), an autosomal dominant form of progressive hearing loss. Two transcript variants encoding different isoforms have been found for this gene.