



# KVβ .3 Monoclonal Antibody

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| Catalog No                  | YP-mAb-16460                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Isotype                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Reactivity                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Applications                | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene Name                   | KCNAB3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Immunogen                   | The antiserum was produced against synthesized peptide derived from human KCNAB3. AA range:293-342                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity                 | KVβ.3 Monoclonal Antibody detects endogenous levels of KVβ.3 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Formulation                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Source                      | Monoclonal, Mouse,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Purification                | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Dilution                    | WB 1:500-1:2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Concentration               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Purity                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Storage Stability           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Synonyms                    | AKR6A9;K;K(+) channel subunit beta-3;K+ channel beta 3 subunit; KCAB3_HUMAN;KCNA3.1B;KCNA3B;KCNAB 3;Kcnab3;KV BETA 3;KV BETA3; Kv-beta-3;MGC116886;Voltage gated potassium channel subunit beta 3;Voltage-gated potassium channel subunit beta-3;KVβ.3                                                                                                                                                                                                                                                                                                         |
| Observed Band               | 45kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Calculated Molecular Weight | 45kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cell Pathway                | Cytoplasm .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Tissue Specificity          | Brain specific. Most prominent expression in cerebellum. Weaker signals detected in cortex, occipital lobe, frontal lobe and temporal lobe. Not detected in spinal cord, heart, lung, liver, kidney, pancreas, placenta and skeletal muscle.                                                                                                                                                                                                                                                                                                                   |
| Function                    | domain:Alteration of functional properties of alpha subunit is mediated through N-terminal domain of beta subunit.,function:Accessory potassium channel protein which modulates the activity of the pore-forming alpha subunit. Alters the functional properties of Kv1.5.,similarity:Belongs to the shaker potassium channel beta subunit family.,subunit:Forms heteromultimeric complex with alpha subunits.,tissue specificity:Brain specific. Most prominent expression in cerebellum. Weaker signals detected in cortex, occipital lobe, frontal lobe and |



temporal lobe. Not detected in spinal cord, heart, lung, liver, kidney, pancreas, placenta and skeletal muscle.,

#### Background

This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. The encoded protein is one of the beta subunits, which are auxiliary proteins associating with functional Kv-alpha subunits. The encoded protein forms a heterodimer with the potassium voltage-gated channel, shaker-related subfamily, member 5 gene product and regulates the activity of the alpha subunit. [provided by RefSeq, May 2012],

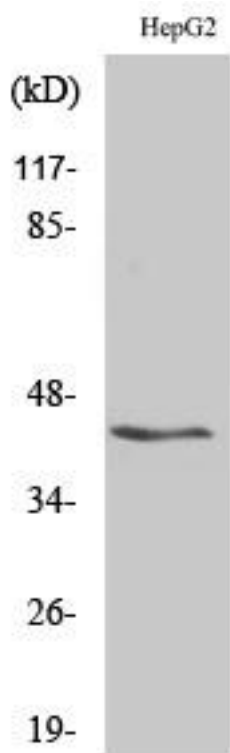
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Western Blot analysis of various cells using KVβ .3 Monoclonal Antibody