

Store at
-20°C

KCTD12 (D8V4J) Rabbit mAb

#81935

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UniProt ID #Q96CX2

New 02/16

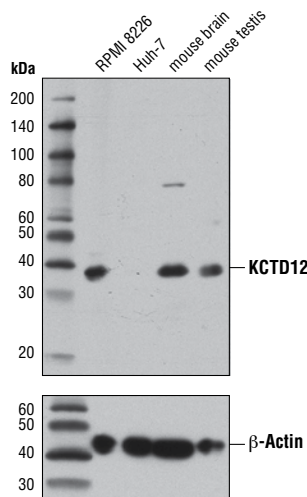
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Applications W, IP Endogenous	Species Cross-Reactivity* H, M	Molecular Wt. 33 kDa	Isotype Rabbit IgG**
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Background: Potassium channel tetramerization domain-containing protein 12 (KCTD12) belongs to the family of KCTD proteins, which also contains KCTD8, 12b, and 16. These proteins are auxiliary subunits of GABA_B receptors (1). The principal subunit of the GABA_B receptor is formed by two GABA_B receptors, which bind to GABA_B ligands, couple to G proteins to inhibit adenylate cyclase production, and gate ion channels (e.g., the GIRK channels) (2). The auxiliary subunits contribute to receptor desensitization. KCTD12 produces fast desensitization by uncoupling the $\beta\gamma$ subunits of the G protein from their effector channels (3). Research studies indicate that KCTD12 represents a biomarker with diagnostic and prognostic potential for gastrointestinal stromal tumors (4).

Specificity/Sensitivity: KCTD12 (D8V4J) Rabbit mAb recognizes endogenous levels of total KCTD12 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro177 of human KCTD12 protein.



Western blot analysis of extracts from various cell lines and tissues using KCTD12 (D8V4J) Rabbit mAb (upper) and β -Actin (D6A8) Rabbit mAb #8457 (lower).

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C . Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

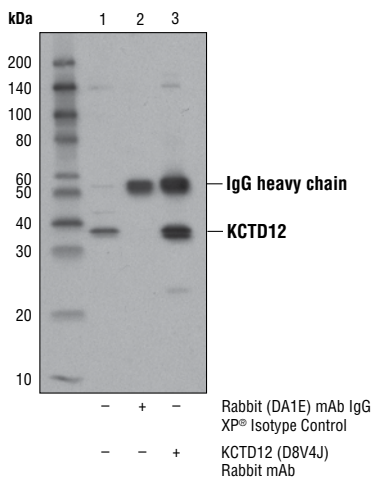
Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:50

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com

Background References:

- (1) Schwenk, J. et al. (2010) *Nature* 465, 231-5.
- (2) Gassmann, M. and Bettler, B. (2012) *Nat Rev Neurosci* 13, 380-94.
- (3) Turecek, R. et al. (2014) *Neuron* 82, 1032-44.
- (4) Hasegawa, T. et al. (2013) *Hum Pathol* 44, 1271-7.



Immunoprecipitation of KCTD12 from U-251 MG cell extracts. Lane 1 is 10% input, lane 2 is Rabbit (DA1E) mAb IgG XP[®] Isotype Control #3900, and lane 3 is KCTD12 (D8V4J) Rabbit mAb. Western blot analysis was performed using KCTD12 (D8V4J) Rabbit mAb.

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween[®]20 at 4°C with gentle shaking, overnight.

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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.