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KCTD12 (D8V4J) Rabbit mAb



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Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 33	Source/Isotype: Rabbit IgG	UniProt ID: #Q96CX2	Entrez-Gene Id 115207
Product Usage Information	Application			Dilution		
	Western Blotting			1:1000		
	Immunoprecipitation			1:50		
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.				
Specificity / Sensiti	Sensitivity KCTD12 (D8V4J) Rabbit mAb recognize			es 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.				
Background	prot rece to G (e.g proc (3).	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 GABAB 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).				
Background Refere	2. G 3. Tu	 Schwenk, J. et al. (2010) Nature 465, 231-5. Gassmann, M. and Bettler, B. (2012) Nat Rev Neurosci 13, 380-94. Turecek, R. et al. (2014) Neuron 82, 1032-44. Hasegawa, T. et al. (2013) Hum Pathol 44, 1271-7. 				

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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

GP: Guinea Pig Rab: rabbit All: all species expected

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