

KCTD12 (D8V4J) Rabbit mAb



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Applications: W, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 33	Source/Isotype: Rabbit IgG	UniProt ID: #Q96CX2	Entrez-Gene Id: 115207
Product Usage Information		Application Western Blotting Immunoprecipitation		Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
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.				
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 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 βγ 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 References		1. Schwenk, J. et al. (2010) <i>Nature</i> 465, 231-5. 2. Gassmann, M. and Bettler, B. (2012) <i>Nat Rev Neurosci</i> 13, 380-94. 3. Turecek, R. et al. (2014) <i>Neuron</i> 82, 1032-44. 4. Hasegawa, T. et al. (2013) <i>Hum Pathol</i> 44, 1271-7.				
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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		W: Western Blotting IP: Immunoprecipitation				
Cross-Reactivity Key		H: Human M: Mouse				
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