Cell Signaling Store at -200 AMPA Receptor 3 (GluA3) (D25G9) Rabbit mAb ΤΕСΗΝΟΙΟ<u>ΘΥ</u>® Orders: 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) Support: Web: info@cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA For Research Use Only. Not for Use in Diagnostic Procedures. Applications: Reactivity: Sensitivity: MW (kDa): Source/Isotype: UniProt ID: Entrez-Gene Id: WB HMR Endogenous 100 Rabbit IgG #P42263 2892 **Product Usage** Application Dilution Information Western Blotting 1:1000 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than Storage 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Specificity / Sensitivity AMPA Receptor 3 (GluA3) (D25G9) Rabbit mAb detects endogenous levels of total GluA3 protein. The antibody is not predicted to detect other AMPA receptor subunits (e.g. GluA1, GluA2 or GluA4) based on sequence homology of the antigen. Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His70 of human GluA3 protein. AMPA- (α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid), kainite- and NMDA- (N-methyl-D-Background aspartate) receptors are the three main families of ionotropic glutamate-gated ion channels. AMPA receptors (AMPARs) are comprised of four subunits (GluR 1-4) that assemble as homo- or heterotetramers and mediate the majority of fast excitatory transmissions in the CNS. AMPARs are implicated in synapse formation, stabilization and plasticity. Post-transcriptional modifications (alternative splicing and nuclear RNA editing) and post-translational modifications (glycosylation, phoshorylation) result in a very large number of permutations, fine-tuning the kinetic properties of AMPARs (1). GluR 3 knockout mice exhibited normal basal synaptic transmission and long-term depression (LTD) but enhanced long-term potentiation (LTP). In contrast, GluR 2/3 double knockout mice are impaired in basal synaptic transmission (2). Aberrant GluR 3 expression or activity is implicated in a number of diseases, including autoimmune epilepsy, X-linked mental retardation, Rett's syndrome, amyotrophic lateral sclerosis and Alzheimer disease (3). 1. Palmer, C.L. et al. (2005) Pharmacol Rev 57, 253-77. **Background References** 2. Meng, Y. et al. (2003) Neuron 39, 163-76. 3. Rembach, A. et al. (2004) J Neurosci Res 77, 573-82. **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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. **Applications Key** WB: Western Blotting H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster **Cross-Reactivity Key** 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 Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. **Trademarks and** All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more Patents information Limited Uses Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

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