정 AMPA Receptor (Glu Kit	A) Antibody Sampler	C			echnology	
Store			Orde		877-616-CELL (2355) rders@cellsignal.com	
1 Kit (6 x 20 microliters)			Supp	ort:	877-678-TECH (8324)	
#8652			Web	:	info@cellsignal.com cellsignal.com	
80 #		3 Trask La	ine   Danvers	s   Massach	nusetts   01923   USA	
For Research Use Only. Not for Use in Dia	agnostic Procedures.					
Product Includes		Product #	Quantity	Mol. Wt	Isotype/Source	

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
AMPA Receptor 1 (GluA1) (D4N9V) Rabbit mAb	13185	20 µl	100 kDa	Rabbit IgG
AMPA Receptor 2 (GluA2) (E1L8U) Rabbit mAb	13607	20 µl	100 kDa	Rabbit IgG
AMPA Receptor 3 (GluA 3) (D47E3) Rabbit mAb	4676	20 µl	100 kDa	Rabbit IgG
AMPA Receptor 4 (GluA 4) (D41A11) XP <sup>®</sup> Rabbit mAb	8070	20 µl	100 kDa	Rabbit IgG
Phospho-AMPA Receptor 1 (GluA1) (Ser845) (D10G5) Rabbit mAb	8084	20 µl	100 kDa	Rabbit IgG
Phospho-AMPA Receptor 2 (GluA2) (Tyr869/Tyr873/Tyr876) Antibody	3921	20 µl	100 kDa	Rabbit
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	The AMPA Receptor (GluA) Antibody Sampler Kit provides an economical means of evaluating the four subunits of AMPARs. The kit contains enough primary and secondary antibodies to perform two western blot experiments with each antibody.
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.
Background	AMPA- (α-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid), kainate-, and NMDA- (N-methyl-D- aspartate) receptors are the three main families of ionotropic glutamate-gated ion channels. AMPA receptors (AMPARs) are comprised of four subunits (GluR 1-4), which assemble as homo- or hetero- tetramers to mediate the majority of fast excitatory transmissions in the central nervous system. AMPARs are implicated in synapse formation, stabilization, and plasticity (1). In contrast to GluR 2- containing AMPARs, AMPARs that lack GluR 2 are permeable to calcium (2). Post-transcriptional modifications (alternative splicing, nuclear RNA editing) and post-translational modifications (glycosylation, phosphorylation) result in a very large number of permutations, fine-tuning the kinetic properties of AMPARs. Research studies have implicated activity changes in AMPARs in a variety of diseases including Alzheimer's, amyotrophic lateral sclerosis (ALS), stroke, and epilepsy (1).
Background References	1. Palmer, C.L. et al. (2005) <i>Pharmacol Rev</i> 57, 253-77. 2. Cull-Candy, S. et al. (2006) <i>Curr Opin Neurobiol</i> 16, 288-97.
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.
	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more 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.
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purpose, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise

attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.