#65650 Store at -20C

Arg3.1 (D6H9N) Rabbit mAb



Orders:

877-616-CELL (2355) orders@cellsignal.com

Support:

877-678-TECH (8324)

Web:

info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 51	Source/Isotype: Rabbit IgG	UniProt ID: #Q7LC44	Entrez-Gene Id: 23237
Product Usage Information	Ар	plication			Dilution	
	We	estern Blotting			1:1000	
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	Arg3.1 (D6H9N) Rabbit mAb recognizes endogenous levels of total Arg3.1 protein. A band of unknown origin is detected ~40kDa in some rodent samples.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val209 of human Arg3.1 protein.				
Background	gen expo syna	Arg3.1, also known as Arc for activity-regulated cytoskeleton-associated protein, is an immediate early gene whose expression is necessary for synaptic plasticity (1). Arg3.1 expression is induced by many experimental stimuli such as LTP (2), LTD (3), and learning. Arg3.1 is also involved in the regulation of synaptic strength and homeostatic scaling by promoting AMPA receptors endocytosis (5,6). Arg3.1 dysregulation has been proposed to participate in cognitive decline during aging (7).				
Background Refere	2. Ly 3. G 4. G 5. C 6. R	uzowski, J.F. et al. (19 /ford, G.L. et al. (19 uzowski, J.F. et al. (uzowski, J.F. et al. (howdhury, S. et al. (ial Verde, E.M. et al letcher, B.R. et al. (2	95) Neuron 14, 4 (2000) J Neurosc (2001) J Neurosc (2006) Neuron 52 . (2006) Neuron 9	33-45. si 20, 3993-4001. si 21, 5089-98. 2, 445-59.		

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

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

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

 $\hbox{All other trademarks are the property of their respective owners. Visit cellsignal.} com/trademarks for more \\$

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 purposes, or any purchase of Product for resale (alone or as a component) or other commercial

Arg3.1 (D6H9N) Rabbit mAb (#65650) Datasheet Without Images Cell Signaling Technology

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.