#6565<u>0</u>

Arg3.1 (D6H9N) Rabbit mAb



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 51	Source/Isotype: Rabbit IgG	UniProt ID: #Q7LC44	Entrez-Gene Id: 23237	
Product Usage Information	2	Application Western Blotting			Dilution 1:1000		
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/Ser	nsitivity	Arg3.1 (D6H9N) Rabbit mAb recognizes endogenous levels of total Arg3.1 protein. A band of unknow origin is detected ~40kDa in some rodent samples.				band of unknown	
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val209 of human Arg3.1 protein.					
Background		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 R	eferences	1. Guzowski, J.F. et al. (1999) <i>Nat Neurosci</i> 2, 1120-4. 2. Lyford, G.L. et al. (1995) <i>Neuron</i> 14, 433-45. 3. Guzowski, J.F. et al. (2000) <i>J Neurosci</i> 20, 3993-4001. 4. Guzowski, J.F. et al. (2001) <i>J Neurosci</i> 21, 5089-98. 5. Chowdhury, S. et al. (2006) <i>Neuron</i> 52, 445-59. 6. Rial Verde, E.M. et al. (2006) <i>Neuron</i> 52, 461-74. 7. Fletcher, B.R. et al. (2014) <i>Neurobiol Learn Mem</i> 115, 58-67.					
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot B	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 K	ley	W: Western Blotting					
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat					
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