61994

#

SIGMAR1 (D4J2E) 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: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit IgG	UniProt ID: #Q99720	Entrez-Gene Id: 10280	
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/Sen	sitivity	SIGMAR1 (D4J2E) Rabbit mAb recognizes endogenous levels of total SIGMAR1 protein.				n.	
Source / Purific	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg137 of human SIGMAR1 protein.					
Background		Sigma non-opioid intracellular receptor 1 (SIGMAR1) is an endoplasmic reticulum (ER) membrane chaperone that forms raft-like microdomains on the ER, where it interacts with mitochondria at the mitochondria-associated ER membrane domain (MAM). At MAM, SIGMAR1 maintains proper ER-mitochondrion Ca2+ signaling, regulates mitochondria function, and enhances cellular survival upon ER stress (1-4). When activated, SIGMAR1 translocates to ER and plasma membrane, where it interacts with a plethora of membrane proteins, including ion channels, neurotransmitter receptors, and kinases. SIGMAR1 also modulates a variety of neuronal functions, such as neuronal excitability, neuroplasticity, neuroprotection, and neurorestoration (5-7). SIGMAR1 binds to many anti-psychotic drugs and it is implicated in addiction, pain, neurodegenerative diseases, and depression (8-11). Recently, mutations in the <i>SIGMAR1</i> gene have been reported to be associated with amyotrophic lateral sclerosis (12,13). Besides its important roles in central nervous system and peripheral nervous system, SIGMAR1 also enhances cancer cell migration and invasion (14,15).					
Background Re	https://dxi.org/action/particle/action						
Species Reactiv	vity	Species reactivity is det	ermined by testing	g in at least one approve	ed 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	ey	W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivit	ту Кеу	H: Human M: Mouse R: Rat					
Trademarks an	nd 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 purposes, 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.