#74807 Store at -20C

SIGMAR1 (D7L1M) Rabbit mAb



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Applications: WB	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 25	Source/Isotype: Rabbit IgG	UniProt ID: #Q99720	Entrez-Gene Id: 10280
Product Usage Information	Ap	Application		Dilution		
mormation	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 / Sensitivity		SIGMAR1 (D7L1M) Rabbit mAb recognizes endogenous levels of total SIGMAR1 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro70 of human SIGMAR1 protein.				
Background	cha mitr mitr stre a pl SIG neu imp the Bes	perone that forms rapechondria-associated ochondrion Ca2+ signs (1-4). When activate thora of membranes MAR1 also modulate iroprotection, and new licated in addiction, SIGMAR1 gene have	aft-like microdom d ER membrane gnaling, regulates vated, SIGMAR1 e proteins, includites a variety of neurorestoration (Epain, neurodegelve been reported oles in central ner	(SIGMAR1) is an endo ains on the ER, where it domain (MAM). At MAM mitochondria function, a translocates to ER and ing ion channels, neuroticuronal functions, such a i-7). SIGMAR1 binds to inerative diseases, and do to be associated with ar vous system and periph sion (14,15).	interacts with mitocho I, SIGMAR1 maintains and enhances cellular plasma membrane, wh ransmitter receptors, a as neuronal excitability many anti-psychotic d lepression (8-11). Rec myotrophic lateral scle	ondria at the sproper ER-survival upon ER here it interacts with and kinases. In neuroplasticity, rugs and it is sently, mutations in prosis (12,13).
Background References		 Hanner, M. et al. (1996) Proc Natl Acad Sci U S A 93, 8072-7. Hayashi, T. and Su, T.P. (2003) J Pharmacol Exp Ther 306, 718-25. Hayashi, T. and Su, T.P. (2007) Cell 131, 596-610. Mori, T. et al. (2013) PLoS One 8, e76941. Griesmaier, E. et al. (2012) Exp Neurol 237, 388-95. Kourrich, S. et al. (2012) Trends Neurosci 35, 762-71. Liu, L.L. et al. (2016) Neuroscience 332, 53-60. Miyatake, R. et al. (2004) Biol Psychiatry 55, 85-90. Choi, S.R. et al. (2017) J Pain 18, 415-427. Huang, Y. et al. (2011) Curr Alzheimer Res 8, 765-70. Mandelli, L. et al. (2017) Adv Ther 34, 713-724. Fukunaga, K. et al. (2015) J Pharmacol Sci 127, 36-41. Al-Saif, A. et al. (2011) Ann Neurol 70, 913-9. Gueguinou, M. et al. (2017) Oncogene 36, 3640-7. Crottès, D. et al. (2016) Cancer Res 76, 607-18. 				

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

1/1/24, 2:09 PM

Cross-Reactivity Key

Trademarks and Patents

Limited Uses

SIGMAR1 (D7L1M) Rabbit mAb (#74807) Datasheet Without Images Cell Signaling Technology

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

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