Store at

hERG1a (D1Y2J) Rabbit mAb -20C 2889 #1



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Applications: W	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 135, 155	Source/Isotype: Rabbit IgG	UniProt ID: #Q12809	Entrez-Gene Id: 3757
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage), 150 mM NaCl, 100 µg/ ot aliquot the antibody.	ml BSA, 50% glycer	ol and less than
Specificity/Sens	sitivity	hERG1a (D1Y2J) Rabbit mAb recognizes endogenous levels of both mature and immature hERG1a protein. This antibody cross-reacts with proteins of unknown origin at 65 and 42 kDa in some cell lin This antibody does not recognize hERG1b protein.				
Species predicte based on 100% homology	ed to react sequence	Monkey				
Source / Purific	ation	Monoclonal antibody i residues surrounding		unizing animals with a s ERG1a protein.	synthetic peptide co	prresponding to
Background		alpha-subunit which m current in heart (IKr) (1	nediates the rapidly I,2). The hERG chan o alternative splicin	e potassium channel 1) i activating component c nel is composed of two g. Native hERG channels current (3-6).	of the delayed rectin subunits, 1a and 1l	fying potassium o, which differ at
		ventricular arrhythmia apoptosis (7-10). There antiarrhythmic agents compounds, which res	is associated with ir efore, hERG channe (11,12). The hERG o sult in side effects. (mpounds or mutation o herited and acquired lo l is a primary target for hannel is also inhibited consequently, hERG cha for various diseases (1	ng QT syndrome a the development o by a variety of non nnel blockage is a d	nd cardiomyocyte f class III -antiarrhythmic
		is expressed in heart, l expressed in various c not in corresponding r	brain, myometrium ancer cell lines of e normal cells (18-22)	cancer cell survival (15) , pancreas, and hemato pithelial, neuronal, leuk , Furthermore, hERG exp d poor prognosis (23,24)	poietic progenitors emic, and connectiv pression is associat	(16,17). hERG is /e tissue origin but
Background Re	ferences	2. Sanguinetti, M.C. an 3. Lees-Miller, J.P. et al. 4. London, B. et al. (19 5. Lees-Miller, J.P. et al. 6. Sale, H. et al. (2008) 7. Curran, M.E. et al. (1 8. Itoh, T. et al. (1998) 9. González-Juanatey, J 10. Gong, Q. et al. (200 11. Thomas, D. et al. (201 12. Staudacher, I. et al.	d Tristani-Firouzi, N (1997) <i>Circ Res</i> 81, 97) <i>Circ Res</i> 81, 870 (2003) <i>Mol Cell Bio Circ Res</i> 103, e81-9 995) <i>Cell</i> 80, 795-80 <i>Hum Genet</i> 102, 43 .R. et al. (2003) <i>Circ</i> 06) <i>J Biol Chem</i> 281, (2006) <i>Curr Pharm D</i> 005) <i>J Pharmacol To</i> 04) <i>Acta Pharmacol To</i> 04) <i>Acta Pharmacol</i> 04) <i>Acta Pharmacol</i> 00) <i>J Biol Chem</i> 275 00) <i>FASEB</i> J 14, 2601	-8. / 23, 1856-62. 5. 93. 5-9. <i>ulation</i> 107, 127-31. 4069-74. <i>es</i> 12, 2271-83. <i>orug Discov Devel</i> 13, 23 <i>ixicol Methods</i> 52, 136-4 <i>(Sin</i> 25, 554-60. 193. 5, 5997-6006. -10.	-30.	

19. Lastraioli, E. et al. (2004) <i>Cancer Res</i> 64, 606-11.		
20. Masi, A. et al. (2005) <i>Br J Cancer</i> 93, 781-92.		
21. Lin, H. et al. (2007) <i>J Cell Physiol</i> 212, 137-47.		
22. Gong, J.H. et al. (2010) <i>Oncol Rep</i> 23, 1747-56.		
23. Ding, X.W. et al. (2008) <i>J Surg Oncol</i> 97, 57-62.		
24. Shao, X.D. et al. (2008) <i>Cancer Biol Ther</i> 7, 45-50.		

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	W: Western Blotting
Cross-Reactivity Key	H: Human R: Rat
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