

# Product Datasheet

## KCNE1 Antibody (5B12) - Azide and BSA Free H00003753-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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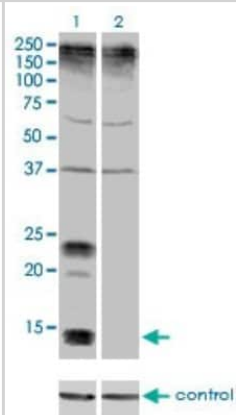
**H00003753-M01**

KCNE1 Antibody (5B12) - Azide and BSA Free

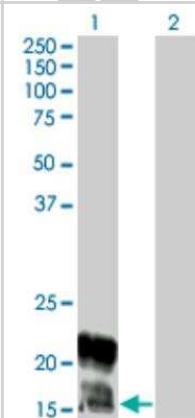
Product Information	
Unit Size	0.1 mg
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	5B12
Preservative	No Preservative
Isotype	IgG1 Kappa
Purity	IgG purified
Buffer	In 1x PBS, pH 7.4
Product Description	
Description	Quality control test: Antibody Reactive Against Recombinant Protein.
Host	Mouse
Gene ID	3753
Gene Symbol	KCNE1
Species	Human, Rat, Canine, Guinea Pig, Monkey
Specificity/Sensitivity	KCNE1 (5B12)
Immunogen	KCNE1 (NP_000210, 67 a.a. ~ 129 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. RSKKLEHSNDPFPNVYIESDAWQEKDKAYVQARVLESYRSCYVVENHLAIEQPN THLPETKPSP
Notes	This product is produced by and distributed for Abnova, a company based in Taiwan.
Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Knockdown Validated
Recommended Dilutions	Western Blot 1:500, ELISA, Immunocytochemistry/ Immunofluorescence, Knockdown Validated
Application Notes	Antibody reactivity against transfected lysate and recombinant protein for WB. It has been used for RNAi Validation and ELISA.

## Images

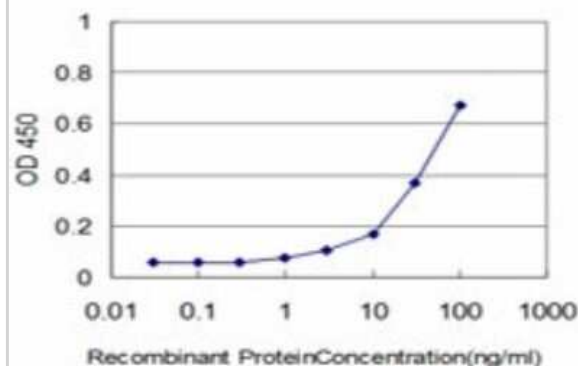
Western Blot: KCNE1 Antibody (5B12) [H00003753-M01] - Analysis of KCNE1 over-expressed 293 cell line, cotransfected with KCNE1 Validated Chimera RNAi ( Cat # H00003753-R01V ) (Lane 2) or non-transfected control (Lane 1). Blot probed with KCNE1 monoclonal antibody (M01), clone 5B12 (Cat # H00003753-M01 ). GAPDH ( 36.1 kDa ) used as specificity and loading control.



Western Blot: KCNE1 Antibody (5B12) [H00003753-M01] - analysis of KCNE1 expression in transfected 293T cell line by KCNE1 monoclonal antibody (M01), clone 5B12. Lane 1: KCNE1 transfected lysate (14.7 KDa). Lane 2: Non-transfected lysate.



ELISA: KCNE1 Antibody (5B12) [H00003753-M01] - Detection limit for recombinant GST tagged KCNE1 is approximately 3ng/ml as a capture antibody.



## Publications

Wu D, Jiang M, Zhang M et al. KCNE2 is colocalized with KCNQ1 and KCNE1 in cardiac myocytes and may function as a negative modulator of I(Ks) current amplitude in the heart. *Heart Rhythm*. 2006-08-25 [PMID: 17161791]

Jiang M, Wang Y, Tseng G et al. Adult Ventricular Myocytes Segregate KCNQ1 and KCNE1 to Keep the IKs Amplitude in Check Until When Larger IKs Is Needed. *Circ Arrhythm Electrophysiol*. 2017-06-15 [PMID: 28611207]

Zankov DP, Salloum FN, Jiang M et al. Chronic in vivo angiotensin II administration differentially modulates the slow delayed rectifier channels in atrial and ventricular myocytes. *Heart Rhythm* 2018-08-01 [PMID: 30075281]

Wang Y, Zankov DP, Jiang M et al. [Ca<sup>2+</sup>]<sub>i</sub> Elevation and Oxidative Stress Induce KCNQ1 Protein Translocation from the Cytosol to the Cell Surface and Increase Slow Delayed Rectifier (IKs) in Cardiac Myocytes. *J Biol Chem*. 2013-10-18 [PMID: 24142691]



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### **Products Related to H00003753-M01**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
7754-BH-005/CF	TGF-beta 1 [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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