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Kv4.2 (D3E7G) Rabbit mAb



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Product Usage Information Application Immunoprecipitation Dilution 1:000 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 adde. Store at -20°C. Do not aliquot the antibody. Specificity/Sensitivity KK42 (20127G) Rabit mah Re-recoprizes endogenous levels of total Kv4.2 protein. This antibody does not cross-react with Kv4.1 and Kv4.3 proteins. Source / Purification Monoclonal antibody is produced by immuniting animals with a synthetic peptide corresponding to residues near the carboy terminus of thuman Kv4.2 protein. Background Kv1.2 is a voltage-gated potassium channel that belongs to the Shareletted subfamily, Kv4.2 mediates the transien outward current (tito), which contributes to any peoplarization and the cardica catton potential (7), Kv4.2 can form homotetramers on heterotetramers with other members of the Shai- related subfamily. Interaction with modulating B subunits such as KhIP family proteins modulates Kv4.2 expression at cell surface and its channel activity (8-10). Background References 1. Serödio, P. and Rudy, B. (1998) / Neurosci 22, 1004-552. S. Lahno, A. et al. (2001) Neurosci 22, 1004-552. S. Lahno, A. et al. (2001) Meurosci 23, 1004-552. S. Lahno, A. et al. (2001) Biol Chem 281, 1736-811 .7. Yeola, S.W. and Snyder, D.J. (1997) <i>Sci 280-96</i> . 10. Ktazawa, M. et al. (2001) Biol Chem 289, 17597-609. Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot). Western Blott Buffer MPORTANT: For western blots, incubate membrane with diluted primary antibo	Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NZV8	Entrez-Gene Id: 3751		
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 aide. Store at -20°C. Do not aliquot the antibody. Specificity/Sensitivity Kv4.2 (D3FG) Rabib mAb recognizes endogenous levels of total kv4.2 protein. This antibody does not cross-react with Kv4.1 and Kv4.3 proteins. Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Kv4.2 protein. Background Kv4.2 is a voltage-gated potassium channel that belongs to the Shal-related subfamily, Kv4.2 mediates (+ transport in excitable membranes primarily in the brain, where it regulates neuronal excitability, synaptic plasticity, and the circation reprotent the storal members of the Shal-related subfamily, Interaction with modulating p subunits such as KCh1P family proteins modulates (K+ transport in excitable membranes primarily in the brain, where it regulates neuronal excitability, synaptic plasticity, and Rudy, B. (1998) / Neurophysiol79, 1081-91. Background References 1. Seródio, P. and Rudy, B. (1998) / Neurophysiol79, 1081-91. Scholar, R. et al. (2000) / Neurosci 23, 10405-52. 5. Jahon, A. et al. (2001) / Neurosci 23, 10405-52. Scholar, R. et al. (2004) / Biol Chem 239, 17597-609. 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 TES, 0.1% Tweeni® 20 at 4°C with genite shaking, overnight.	Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100			
Specificity/SensitivityKv4.2 (D3E7G) Rabbit mAb recognizes endogenous levels of total Kv4.2 protein. This antibody does not cross-react with Kv4.1 and Kv4.3 proteins.Source / PurificationMonoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Kv4.2 protein.BackgroundKv4.2 is a voltage-gated potassium channel that belongs to the Shal-related subfamily. Kv4.2 mediates the transport in excitable membranes primarily in the brain, where it regulates neuronal excitability, synaptic plasticity, and the circadian rhythm of locomotor activity (1-6). In roden theart, Kv4.2 mediates the transent outward current (10, which contributes to early repolarization and the cardia action potential (7). Kv4.2 can form homotetramers or heterotetramers with other members of the Shal- related subfamily. Interaction with modulating § subunits such as KChIP family proteins modulates Kv4.2 expression at cell surface and its channel activity (8-10).Background References1. Serödio, P. and Rudy, B. (1998) / Neurophysiol 79, 1081-91. 2. Shibata, R. et al. (2000) / Neurosci 20, 4145-55. 3. Zhao, C. et al. (2011) <i>Hispocampus</i> 21, 288-97. 4. Grandos-Fuents, D. et al. (2012) / Neurosci 23, 10045-52. 5. Labno, A. et al. (2004) <i>Biol Chem</i> 279, 554-95. 10. Kitzawa, M. et al. (2004) <i>Biol Chem</i> 279, 554-95. 10. Kitzawa, M. et al. (2004) <i>Biol Chem</i> 279, 554-95. 10. Kitzawa, M. et al. (2004) <i>Biol Chem</i> 279, 554-95. 10. Kitzawa, M. et al. (2014) <i>Hisol Chem</i> 279, 554-95. 10. Kitzawa, M. et al. (2014) <i>Biol Chem</i> 279, 554-95. 10. Kitzawa, M. et al. (2014) <i>Biol Chem</i> 289, 17597-609.Species ReactivitySpecies reactivity is determined by testing in at least one approved application (e.g., western blot). Western Blot BufferIMPORTANT: For western blots, incu	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.						
Source / PurificationMonoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Kv4.2 protein.BackgroundKv4.2 is a voltage-gated potassium channel that belongs to the Shal-related subfamily, Kv4.2 mediates K+ transport in excitable membranes primarily in the brain, where it regulates neuronal excitability, synaptic plasticity, and the circadian rhythm of locomotor activity (1-6). In rodent heart, Kv4.2 mediates the transient outward current (100, which contributes to early repolarization and the cardiac action potential (7). Kv4.2 can form homotetramers or heterotetramers with other members of the Shal- related subfamily. Interaction with modulating B subunits such as KChIP family proteins modulates Kv4.2 expression at cell surface and its channel activity (8-10).Background References1. Serödio, P. and Rudy, B. (1998) / Neurophysiol 79, 1081-91. 2. Shibata, R. et al. (2000) / Neurosci 20, 4145-55. 3. Zhao, C. et al. (2011) <i>Hispocampus</i> 21, 288-97. 4. Granados-Fuentes, D. et al. (2012) / Neurosci 23, 10045-52. 5. Labno, A. et al. (2004) <i>Biol Chem</i> 279, 5549-54. 9. Jerng, H.H. et al. (2004) <i>Biol Chem</i> 279, 5549-54. 9. Jerng, H.H. et al. (2004) <i>Biol Chem</i> 279, 5549-56. 10. Kitazawa, M. et al. (2004) <i>Biol Chem</i> 289, 17597-609.Species ReactivitySpecies reactivity is determined by testing in at least one approved application (e.g., western blot).Western Blot BufferIMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tweenes 20 at 4*C with gentle shaking, overnight.Applications KeyW: Western Blotting IP: ImmunoprecipitationCross-Reactivity KeyH: Human M: Mouse R: RatTrademarks and PatentsCell Signaling Technology	Specificity/Sensitivity Kv4.2 (D3E7G) Rabbit mAb recognizes endogenous levels of total Kv4.2 protein. This antibout cross-react with Kv4.1 and Kv4.3 proteins.				antibody does not				
BackgroundKw4.2 is a voltage-gated potassium channel that belongs to the Shal-related subfamily, Kw4.2 mediates K+ transport in excitable membranes primarily in the brain, where it requites neuronal excitability, synaptic plasticity, and the circadian rhythm of locomotor activity (1-6). In orden theart, Kw4.2 mediates the transient outward current (10,), which contributes to early repolarization and the cardiac action potential (7), Kw4.2 can form homotetramers or neteroteramers with other members of the Shal- related subfamily. Interaction with modulating β subunits such as KChIP family proteins modulates Kw4.2 expression at cell surface and its channel activity (8-10).Background References1. Seródio, P. and Rudy, B. (1998) / Neurosci 20, 4145-55. 3. Zhao, C, et al. (2011) / Hippocampus 21, 288-97. 4. Granados-Fuentes, D. et al. (2012) / Neurosci 23, 10045-52. 5. Labon, A, et al. (2014) <i>PLBS One</i> 9, e84086. 6. Yao, J.J. et al. (2014) <i>PLBS One</i> 9, e84086. 6. Yao, J.J. et al. (2004) <i>Biol Chem</i> 279, 1549-54. 9. Jerng, H.H. et al. (2004) <i>Biol Chem</i> 279, 1549-54. 9. Jerng, H.H. et al. (2004) <i>Biol Chem</i> 279, 1549-54. 9. Jerng, H.H. et al. (2004) <i>Biol Chem</i> 279, 1549-54. 9. Jerng, H.H. et al. (2004) <i>Biol Chem</i> 279, 1549-54. 9. Jerng, H.H. et al. (2004) <i>Biol Chem</i> 279, 1549-54. 9. Jerng, H.H. et al. (2004) <i>Biol Chem</i> 279, 1549-54. 9. Jerng, H.H. et al. (2004) <i>Biol Chem</i> 279, 1549-54. 9. Jerng, H.H. et al. (2004) <i>Biol Chem</i> 279, 1549-54. 9. Jerng, H.H. et al. (2004) <i>Biol Chem</i> 279, 1549-54. 9. Jerng, J.H. et al. (2004) <i>Biol Chem</i> 279, 17597-609.Species ReactivitySpecies reactivity is determined by testing in at least one approved application (e.g., western blot.) R.K. et al. (2004) <i>Biol Chem</i> 279, 17597-609.Cross-Reactivity KeyH: Human M: Mouse R: Rat Human M: Mouse R: RatTrademarks and Paten	Source / Purifi	cation	Monoclonal antibody i residues near the carb	Nonoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human Kv4.2 protein.					
Background References 1. Serôdio, P. and Rudy, B. (1998) J Neurophysiol 79, 1081-91. 2. Shibata, R. et al. (2000) / Neurosci 20, 4145-55. 3. Zhao, C. et al. (2011) / Hipocampus 21, 288-97. 4. Granados-Fuentes, D. et al. (2012) / Neurosci 32, 10045-52. 5. Labno, A. et al. (2014) <i>PLOS One</i> 9, e84086. 6. Yao, J.J. et al. (2016) <i>Biol Chem</i> 291, 17369-81. 7. Yeola, S.W. and Snyders, D.J. (1997) <i>Cardiovasc</i> Res 33, 540-7. 8. Kim, L.A. et al. (2004) <i>Biol Chem</i> 299, 17597-609. 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 IP: Immunoprecipitation Cross-Reactivity Key H: Human M: Mouse R: Rat Trademarks and 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 separately accepted in writing by a legally authorized representative of no force or effect. <th>Background</th> <th></th> <th colspan="6">Kv4.2 is a voltage-gated potassium channel that belongs to the Shal-related subfamily. Kv4.2 mediates K+ transport in excitable membranes primarily in the brain, where it regulates neuronal excitability, synaptic plasticity, and the circadian rhythm of locomotor activity (1-6). In rodent heart, Kv4.2 mediates the transient outward current (Ito), which contributes to early repolarization and the cardiac action potential (7). Kv4.2 can form homotetramers or heterotetramers with other members of the Shal-related subfamily. Interaction with modulating β subunits such as KChIP family proteins modulates Kv4.2 expression at cell surface and its channel activity (8-10).</th>	Background		Kv4.2 is a voltage-gated potassium channel that belongs to the Shal-related subfamily. Kv4.2 mediates K+ transport in excitable membranes primarily in the brain, where it regulates neuronal excitability, synaptic plasticity, and the circadian rhythm of locomotor activity (1-6). In rodent heart, Kv4.2 mediates the transient outward current (Ito), which contributes to early repolarization and the cardiac action potential (7). Kv4.2 can form homotetramers or heterotetramers with other members of the Shal-related subfamily. Interaction with modulating β subunits such as KChIP family proteins modulates Kv4.2 expression at cell surface and its channel activity (8-10).						
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Applications KeyW: Western Blotting IP: ImmunoprecipitationCross-Reactivity KeyH: Human M: Mouse R: RatTrademarks and PatentsCell 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 UsesExcept 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 separately accepted in writing by a legally authorized representative of no or or effect.	Western Blot E	Buffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a	ern blots, incubate at 4°C with gentle s	membrane with diluted shaking, overnight.	primary antibody in	n 5% w/v BSA, 1X		
Cross-Reactivity KeyH: Human M: Mouse R: RatTrademarks and PatentsCell 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 UsesExcept 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 separately accepted in writing by a legally authorized representative of root cor effect.	Applications K	ey	W: Western Blotting IP	: Immunoprecipita	ition				
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