

3095

AIM2 Antibody (Mouse Specific)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Reactivity:	Sensitivity: Endogenous	MW (kDa): 43	Source/Isotype: Rabbit	UniProt ID: #O14862	Entrez-Gene Id 9447
	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100	
	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
itivity	AIM2 Antibody (Mouse Specific) recognizes endogenous levels of total AIM2 protein.				
ation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val104 of mouse AIM2 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
	domain and carboxy-te progression (1). Expres AIM2 gene has a high cancers (4). AIM2 has a processing of pro-infla protein complexes refe described containing N responsible for binding This inflammasome co protein ASC/TMS1, whi	erminal HIN-200 do ssion of AIM2 can i frequency of muta a critical role in the mmatory cytokine erred to as "inflami NLRP1/NALP1, NLR g to cytoplasmic do mplex also involve ich then interacts o	omain that functions in in the properties of the prince of th	innate immunity an umor formation (2,3 icrosatellite-unstable the protease response-1 activation is reinflammasome cond 2. The HIN-200 do sulting in caspase-1 omain of AIM2 to the As a result, AIM2 ha	d tumor B). Furthermore, the le colorectal consible for the gulated by multi- mplexes have been main of AIM2 is activation. (7-9). The CARD-domain s been
ferences	1. DeYoung, K.L. et al. (1997) Oncogene 15, 453-7. 2. Chen, I.F. et al. (2006) Mol Cancer Ther 5, 1-7. 3. Patsos, G. et al. (2010) Int J Cancer 126, 1838-49. 4. Woerner, S.M. et al. (2007) Genes Chromosomes Cancer 46, 1080-9. 5. Schroder, K. and Tschopp, J. (2010) Cell 140, 821-32. 6. Khare, S. et al. (2010) Crit Rev Immunol 30, 463-87. 7. Roberts, T.L. et al. (2009) Science 323, 1057-60. 8. Hornung, V. et al. (2009) Nature 458, 514-8. 9. Fernandes-Alnemri, T. et al. (2009) Nature 458, 509-13. 10. Jones, J.W. et al. (2010) Proc Natl Acad Sci USA 107, 9771-6. 11. Fernandes-Alnemri, T. et al. (2010) Nat Immunol 11, 385-93. 12. Kim, S. et al. (2010) Eur J Immunol 40, 1545-51.				
	itivity ation	Application Western Blotting Immunoprecipitation Supplied in 10 mM soc 20°C. Do not aliquot the itivity AIM2 Antibody (Mouse residues surrounding affinity chromatograph Absent in melanoma 2 domain and carboxy-toprogression (1). Exprese AIM2 gene has a high cancers (4). AIM2 has a processing of pro-inflatographic protein complexes refedescribed containing a protein complexes refedescribed containing a protein ASC/TMS1, white demonstrated to be are supplied to be an analysis of the complexes of the complexes refedescribed containing and the complexes refedences and the complexes references are supplied to the complexes refedences and the complexes refedences are supplied to the complexes refedence and the complexes	Application Western Blotting Immunoprecipitation Supplied in 10 mM sodium HEPES (pH 7.5 20°C. Do not aliquot the antibody. AIM2 Antibody (Mouse Specific) recogniz Polyclonal antibodies are produced by im residues surrounding Val104 of mouse A affinity chromatography. Absent in melanoma 2 (AIM2) is an interf domain and carboxy-terminal HIN-200 de progression (1). Expression of AIM2 can i AIM2 gene has a high frequency of muta cancers (4). AIM2 has a critical role in the processing of pro-inflammatory cytokine protein complexes referred to as "inflamm described containing NLRP1/NALP1, NLR responsible for binding to cytoplasmic do This inflammasome complex also involve protein ASC/TMS1, which then interacts of demonstrated to be an important sensor 1. DeYoung, K.L. et al. (1997) Oncogene 1 2. Chen, I.F. et al. (2006) Mol Cancer There 3. Patsos, G. et al. (2010) Int J Cancer 126, 4. Woerner, S.M. et al. (2007) Genes Chro. 5. Schroder, K. and Tschopp, J. (2010) Cell 6. Khare, S. et al. (2010) Crit Rev Immuno 7. Roberts, T.L. et al. (2009) Science 323, 18. Hornung, V. et al. (2009) Nature 458, 5	Application Western Blotting Immunoprecipitation Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg 20°C. Do not aliquot the antibody. AIM2 Antibody (Mouse Specific) recognizes endogenous levels of Polyclonal antibodies are produced by immunizing animals with residues surrounding Val104 of mouse AIM2 protein. Antibodies affinity chromatography. Absent in melanoma 2 (AIM2) is an interferon-inducible protein comparison (1). Expression of AIM2 can inhibit cell growth and to AIM2 gene has a high frequency of mutations associated with m cancers (4). AIM2 has a critical role in the activation of caspase-1, processing of pro-inflammatory cytokines IL-1β and IL-18. Caspa protein complexes referred to as "inflammasomes" (5,6). Distinct described containing NLRP1/NALP1, NLRP3/NALP3, IPAF, and AIM responsible for binding to cytoplasmic double-stranded DNA, res This inflammasome complex also involves binding of the pyrin diprotein ASC/TMS1, which then interacts directly with caspase-1. A demonstrated to be an important sensor for a number of differences. 1. DeYoung, K.L. et al. (1997) Oncogene 15, 453-7. 2. Chen, I.F. et al. (2006) Mol Cancer Ther 5, 1-7. 3. Patsos, G. et al. (2010) Int J Cancer 126, 1838-49. 4. Woerner, S.M. et al. (2007) Genes Chromosomes Cancer 46, 10 5. Schroder, K. and Tschopp, J. (2010) Cell 140, 821-32. 6. Khare, S. et al. (2010) Crit Rev Immunol 30, 463-87. 7. Roberts, T.L. et al. (2009) Science 323, 1057-60. 8. Hornung, V. et al. (2009) Nature 458, 514-8.	Application Western Blotting Immunoprecipitation Mestern Blotting Immunoprecipitation Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% g 20°C. Do not aliquot the antibody. 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The HIN-200 doresponsible for binding to cytoplasmic double-stranded DNA, resulting in caspase-1 This inflammasome complex also involves binding of the pyrin domain of AIM2 to the protein ASC/TMS1, which then interacts directly with caspase-1. As a result, AIM2 hademonstrated to be an important sensor for a number of different pathogens (10-1 In DeYoung, K.L. et al. (2006) Mol Cancer Ther 5, 1-7. 3. Patsos, G. et al. (2010) Int J Cancer 126, 1838-49. 4. Woerner, S.M. et al. (2007) Genes Chromosomes Cancer 46, 1080-9. 5. Schroder, K. and Tschopp, J. (2010) Cell 140, 821-32. 6. Khare, S. et al. (2010) Cell 140, 821-32. 6. Khare, S. et al. (2009) Science 323, 1057-60. 8. Hornung, V. et al. (2009) Nature 458, 514-8.

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

M: Mouse

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