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Applications: W, IP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 49	Source/Isotype: Rabbit	UniProt ID: #O96OA5	Entrez-Gene Id: 284110
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50	
Storage		Supplied in 10 mM sodiu 20°C. <i>Do not aliquot the</i>	um HEPES (pH 7.5) e antibody.	), 150 mM NaCl, 100 μg/	ml BSA and 50% gly	<sup>,</sup> cerol. Store at –
Specificity/Sens	sitivity	Gasdermin A Antibody recognizes endogenous levels of total Gasdermin A protein.				
Source / Purific	ation	Polyclonal antibodies ar residues surrounding G peptide affinity chromat	e produced by imi ly256 of human G tography.	munizing animals with a asdermin A protein. Anti	synthetic peptide of bodies are purified	orresponding to by protein A and
Background	<b>und</b> The gasdermin family, which includes GSDMA, GSDMB, GSDMC, GSDMD, and GSDME, has been to play a role in inflammation and cell death. Gasdermin D has been reported to have a critical downstream effector of pyroptosis (1,2). Pyroptosis is a lytic type of cell death triggered by inflammasomes, multiprotein complexes assembled in response to pathogen-associated mole patterns (PAMPs) or danger-associated molecular patterns (DAMPs) that result in the activation caspase-1 and subsequent cleavage of pro-inflammatory cytokines IL-1β and IL-18 (3). Gasdern was identified by two independent groups as a substrate of inflammatory caspases, caspase-1 caspase-11/4/5, producing two fragments: GSDMD-N and GSDMD-C. Cleavage results in releas intramolecular inhibitory interaction between the N- and C-terminal domains, allowing the N-t fragment GSDMD-N to initiate pyroptosis through the formation of pores on the plasma memi 7).				, has been shown e a critical role as a ed by ated molecular activation of ). Gasdermin D caspase-1 and s in release of an ig the N-terminal ma membrane (4-	
		Gasdermin A (GSDMA) is tract and is frequently so termed <i>GSDMA1-3</i> (8). T apoptosis, pyroptosis, a not the full-length prote unknown (12). The most is associated with skin d play a causative role in a	s preferentially ex uppressed in gast 'he role of Gasder nd autophagy (10 ein, induces pyrop t widely studied m lifferentiation and alopecia (16,17).	pressed in the epitheliur ric cancer (8-10). Mice ex min A has been associat -15). Expression of an N- cosis, but the mechanism ouse form, <i>GSDMA3</i> , is o inflammation, and a do	n of the skin and ga opress three Gasder ed with cellular diff terminal fragment ns of any cleavage o expressed in mouse minant mutation ha	istrointestinal min A genes erentiation, of <i>GSDMA3</i> , but of <i>GSDMA3</i> are keratinocytes and as been found to
Background Re	ferences	1. Kayagaki, N. et al. (20 2. Shi, J. et al. (2015) <i>Nat</i> 3. Broz, P. and Dixit, V.M 4. Aglietti, R.A. et al. (2015) <i>Na</i> 5. Ding, J. et al. (2016) <i>Na</i> 7. Sborgi, L. et al. (2016) <i>Na</i> 7. Sborgi, L. et al. (2016) 8. Tamura, M. et al. (2000) 9. Saeki, N. et al. (2000) 10. Saeki, N. et al. (2007) 11. Li, J. et al. (2010) <i>Bio</i> 12. Shi, J. et al. (2015) <i>Na</i> 13. Shi, P. et al. (2015) <i>Bi</i> 14. Lei, M. et al. (2011) <i>F</i> 15. Lei, M. et al. (2012) <i>F</i> 16. Runkel, F. et al. (2004)	15) <i>Nature</i> 526, 66 <i>ture</i> 526, 660-5. (2016) <i>Nat Rev Ir</i> 16) <i>Proc Natl Acad</i> <i>lature</i> 535, 111-6. <i>ture</i> 535, 153-8. <i>EMBO J</i> 35, 1766- 7) <i>Genomics</i> 89, 6 <i>Mamm Genome</i> 1 ) <i>Oncogene</i> 26, 64 <i>chem Biophys Res</i> <i>ature</i> 526, 660-5. <i>iochem J</i> 468, 325- <i>distochem Cell Bio</i> <i>distochem Cell Bio</i> <i>distochem Cell Bio</i> <i>J Genomics</i> 84, 83 <i>Am J Pathol</i> 180, 7	56-71. <i>mmunol</i> 16, 407-20. <i>l Sci USA</i> 113, 7858-63. 78. 18-29. 1, 718-24. 88-98. <i>Commun</i> 403, 18-23. 36. / 136, 335-43. / 138, 385-96. 24-35. 763-74.		

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.
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Cross-Reactivity Key	H: Human
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