#93709

Gasdermin D (L60) Antibody



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 29, 53	Source/Isotype: Rabbit	UniProt ID: #Q9D8T2	Entrez-Gene Id: 69146		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		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.						
Specificity/Sen	sitivity	Gasdermin D (L60) Antibody recognizes endogenous levels of total Gasdermin D protein. This antibody detects the N-terminal fragment of Gasdermin D upon proteolytic cleavage.						
Source / Purific	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu60 of mouse Gasdermin D protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Gasdermin D (GSDMD), a member of the gasdermin family that includes GSDMA, GSDMB, and GSDMC, has been reported to have a critical role as a 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 molecular patterns (PAMPs) or danger-associated molecular patterns (DAMPs) that result in the activation of caspase-1 and subsequent cleavage of pro-inflammatory cytokines IL-1β and IL-18 (3). Gasdermin D was identified by two independent groups as a substrate of inflammatory caspases, caspase-1 and caspase-11/4/5, producing two fragments: GSDMD-N and GSDMD-C. Cleavage results in release of an intramolecular inhibitory interaction between the N- and C-terminal domains, allowing the N-terminal fragment GSDMD-N to initiate pyroptosis through the formation of pores on the plasma membrane (4-7).						
Background Re	eferences	1. Kayagaki, N. et al. (2015) <i>Nature</i> 526, 666-71. 2. Shi, J. et al. (2015) <i>Nature</i> 526, 660-5. 3. Broz, P. and Dixit, V.M. (2016) <i>Nat Rev Immunol</i> 16, 407-20. 4. Aglietti, R.A. et al. (2016) <i>Proc Natl Acad Sci U S A</i> 113, 7858-63. 5. Ding, J. et al. (2016) <i>Nature</i> 535, 111-6. 6. Liu, X. et al. (2016) <i>Nature</i> 535, 153-8. 7. Sborgi, L. et al. (2016) <i>EMBO J</i> 35, 1766-78.						
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	uffer	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 K	ey	W: Western Blotting						
Cross-Reactivit	су Кеу	H: Human M: Mouse R: Rat						
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