

Store at
-20°C

Gasdermin B Antibody

#76439

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orders@cellsignal.comEntrez-Gene ID #55876
UniProt ID #Q8TAX9

New 01/19

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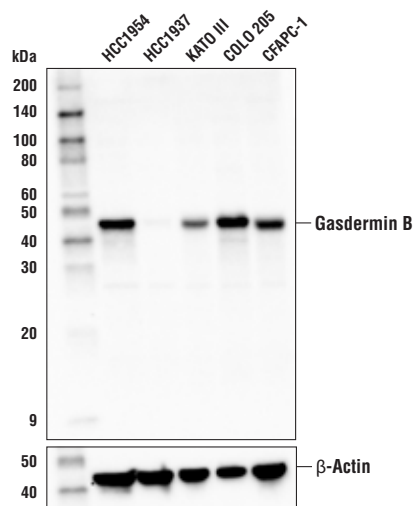
Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP Endogenous	H	47 kDa	Rabbit**

Background: The gasdermin family that includes GSDMA, GSDMB, GSDMC, GSDMD, and GSDME have been shown to play a role in inflammation and cell death. Gasdermin D 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-1 β 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).

Gasdermin B (GSDMB) has been reported to be upregulated in several tumor types, and in breast cancer has been associated with metastasis and poor prognosis (8,9). In addition Gasdermin B has been associated with immune disorders including asthma (10, 11). Gasdermin B expression has also been found in the lung epithelium associated with asthma. Gasdermin B can also have a role in pyroptosis as it was found to activate caspase-4 and promote Gasdermin D cleavage (12).

Specificity/Sensitivity: Gasdermin B Antibody recognizes endogenous levels of total Gasdermin B protein.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu96 of human Gasdermin B protein. Antibodies are purified by protein A and peptide affinity chromatography.



Western blot analysis of extracts from various cell lines using Gasdermin B Antibody (upper) or β -Actin (D6A8) Rabbit mAb #8457 (lower).

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at -20°C . Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:100

For product specific protocols and a complete listing of recommended companion products please see the product web page at www.cellsignal.com.

Background References:

- (1) Kayagaki, N. et al. (2015) *Nature* 526, 666-71.
- (2) Shi, J. et al. (2015) *Nature* 526, 660-5.
- (3) Broz, P. and Dixit, V.M. (2016) *Nat Rev Immunol* 16, 407-20.
- (4) Aglietti, R.A. et al. (2016) *Proc Natl Acad Sci U S A* 113, 7858-63.
- (5) Ding, J. et al. (2016) *Nature* 535, 111-6.
- (6) Liu, X. et al. (2016) *Nature* 535, 153-8.
- (7) Sborgi, L. et al. (2016) *EMBO J* 35, 1766-78.
- (8) Hergueta-Redondo, M. et al. (2014) *PLoS One* 9, e90099.
- (9) Hergueta-Redondo, M. et al. (2016) *Oncotarget* 7, 56295-308.
- (10) Yu, J. et al. (2011) *Pediatr Pulmonol* 46, 701-8.
- (11) Das, S. et al. (2016) *Proc Natl Acad Sci U S A* 113, 13132-37.
- (12) Chen, Q. et al. (2018) *J Mol Cell Biol*.

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IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween[®]20 at 4°C with gentle shaking, overnight.

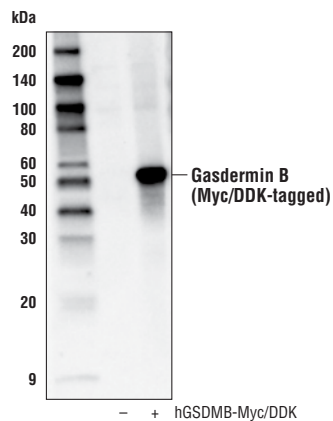
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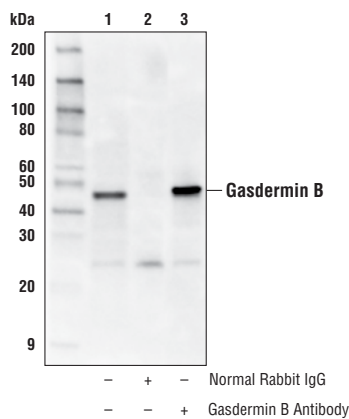
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Applications: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide Species Cross-Reactivity: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.



Western blot analysis of extracts from 293T cells, untransfected (-) or transfected with a construct expressing Myc/DDK-tagged full-length human Gasdermin B (hGSDMB-Myc/DDK; +), using Gasdermin B Antibody.



Immunoprecipitation of Gasdermin B from COLO 205 extracts. Lane 1 is 10% input, lane 2 is Normal Rabbit IgG #2729, and lane 3 Gasdermin B Antibody. Western blot was performed using Gasdermin B Antibody. Mouse Anti-rabbit IgG (Conformation Specific) (L27A9) mAb (HRP Conjugate) #5127 was used as a secondary antibody.

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