

For Research Use Only

# GSDMD Polyclonal antibody

Catalog Number: 20770-1-AP

Featured Product

312 Publications



## Basic Information

**Catalog Number:**

20770-1-AP

**Concentration:**

800 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG14757

**GenBank Accession Number:**

BC008904

**GeneID (NCBI):**

79792

**UNIPROT ID:**

P57764

**Full Name:**

gasdermin D

**Calculated MW:**

484 aa, 53 kDa

**Observed MW:**

50-53 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:10000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

**Cited Applications:**

WB, IHC, IF

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse, rat, pig, bovine, hamster

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : A431 cells, NIH/3T3 cells, Jurkat cells, C6 cells, rat liver tissue, rat brain tissue

IP : THP-1 cells,

IHC : human ovary cancer tissue,

IF/ICC : HeLa cells,

## Background Information

GSDMD is a member of the gasdermin family. Members of this family appear to play a role in regulation of epithelial proliferation. GSDMD has been suggested to act as a tumor suppressor. Recently, GSDMD is identified as a new component of inflammasomes, and it is an executor of pyroptosis and required for interleukin-1 $\beta$  secretion. Cleavage of GSDMD by inflammatory caspases determines pyroptotic cell death. This antibody can only detect full length GSDMD.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xuye Jiang	34630100	Front Pharmacol	WB
Jun Tao	33010604	Placenta	WB
Youliang Wang	31608008	Front Endocrinol (Lausanne)	IHC

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

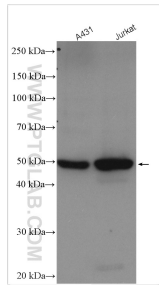
T: 4006900926

E: Proteintech-CN@ptglab.com

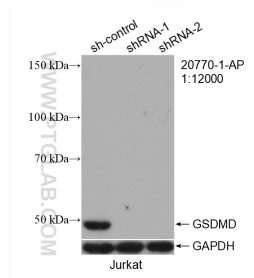
W: ptgcn.com

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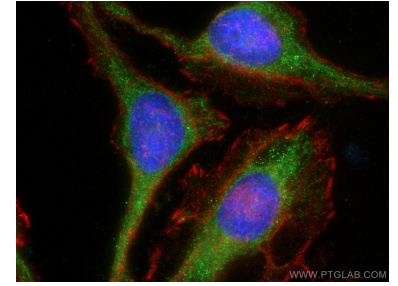
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 20770-1-AP (GSDMD antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



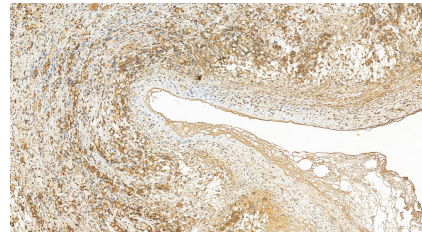
WB result of GSDMD antibody (20770-1-AP; 1:12000; incubated at room temperature for 1.5 hours) with sh-Control and sh-GSDMD transfected Jurkat cells.



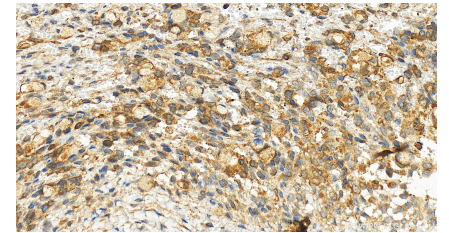
Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using GSDMD antibody (20770-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



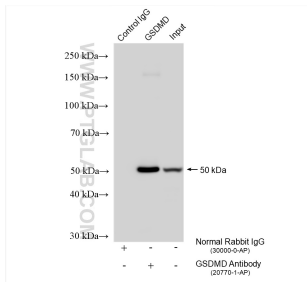
1x10<sup>6</sup> Jurkat cells were intracellularly stained with 0.4 ug GSDMD Polyclonal antibody (20770-1-AP) and CoraLite@488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



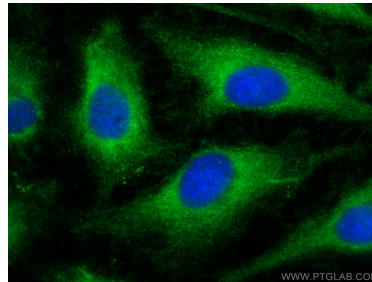
Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 20770-1-AP (GSDMD antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 20770-1-AP (GSDMD antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-GSDMD (IP:20770-1-AP, 4ug; Detection:20770-1-AP 1:4000) with THP-1 cells lysate 1560 ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using GSDMD antibody (20770-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).