

## GSDMD (PTR1398) Mouse mAb

CatalogNo: YM4266

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Mouse, Rat,

#### Applications

- WB, IF, ELISA

#### MW

- 53kD, 31kD (Calculated)  
53kD, 31kD (Observed)

#### Isotype

- IgG1, kappa

### Recommended Dilution Ratios

**WB 1:500-2000**

**IF 1:100-500**

**ELISA 1:1000-5000**

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** PBS, 50% glycerol, 0.05% Proclin 300, 0.05% BSA

### Basic Information

**Clonality** Monoclonal

**Clone Number** PTR1398

### Immunogen Information

**Immunogen** AA range: 1-100

**Specificity** This antibody detects endogenous levels of GSDMD protein.

## Target Information

**Gene name** GSDMD

**Protein Name** Gasdermin domain-containing protein 1,Gasdermin-D,GSDMD,GSDMD-CT,GSDMD-NT,GSDMD\_HUMAN

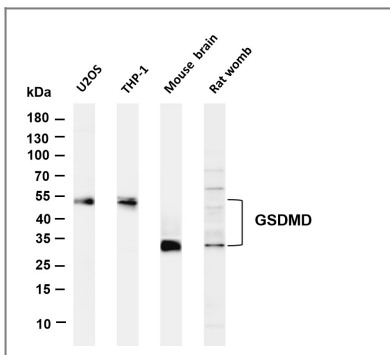
Organism	Gene ID	UniProt ID
Human		<a href="#">P57764</a> ;

**Cellular Localization** Cytoplasm

**Tissue specificity** Expressed in the suprabasal cells of esophagus, as well as in the isthmus/neck, pit, and gland of the stomach, suggesting preferential expression in differentiating cells.

**Function** Cleavage at Asp-275 by CASP1 (mature and uncleaved precursor forms), CASP4, CASP5 or CASP8 relieves autoinhibition and is sufficient to initiate pyroptosis (PubMed:26375003, PubMed:29898893, PubMed:32109412). Cleavage by CASP1 and CASP4 is not strictly dependent on the consensus cleavage site on GSDMD but depends on an exosite interface on CASP1 that recognizes and binds the Gasdermin-D, C-terminal (GSDMD-CT) part (PubMed:32109412). Cleavage by CASP8 takes place following inactivation of MAP3K7/TAK1 by Yersinia toxin YopJ (By similarity). Cleavage at Asp-87 by CASP3 or CAPS7 inactivates the ability to mediate pyroptosis (PubMed:28392147, PubMed:28045099).

## Validation Data



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-GSDMD (PTR1398) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: U2OS Lane 2: THP-1 Lane 3: Mouse brain Lane 4: Rat womb  
Predicted band size: 53,31kDa Observed band size: 53,31kDa

## Contact information

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**GSDMD (PTR1398)**  
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