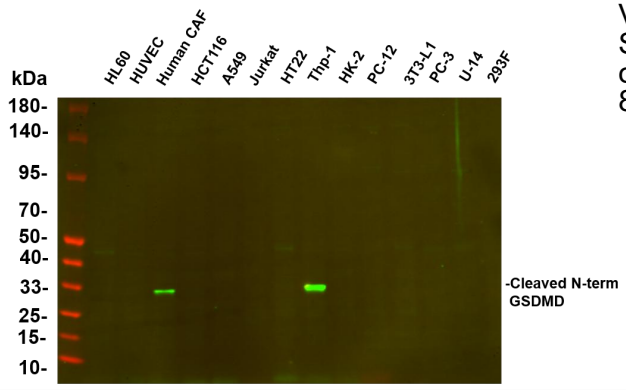
Cleaved N-terminal GSDMD Rabbit mAb

Catalog No	YP-rAb-17562
Isotype	IgG
Reactivity	Human
Applications	WB,IF,ELISA
Gene Name	GSDMD
Protein Name	Gasdermin domain-containing protein 1,Gasdermin-D,GSDMD,GSDMD-CT,GSDMD-NT,GSDMD_HUMAN
Purification Process	Protein A
Specificity	This antibody detects endogenous levels of Cleaved N-terminal GSDMD.
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000;
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	
Observed Band	35kD
Calculated Molecular Weight	53kD
Cell Pathway	[Gasdermin-D]: Cytoplasm, cytosol . Inflammasome . In response to a canonical inflammasome stimulus, such as nigericin, recruited to NLRP3 inflammasone with similar kinetics to that of uncleaved CASP1 precursor. .; [Gasdermin-D, N-terminal]: Cell membrane ; Multi-pass membrane protein . Secreted . Released in the extracellular milieu following pyroptosis. .; [Gasdermin-D, C-terminal]: Cytoplasm, cytosol .
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

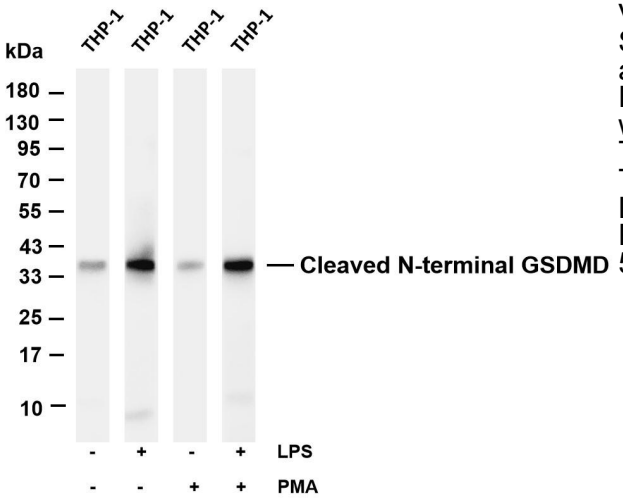
CASP3 or CAPS7 inactivates the ability to mediate pyroptosis (PubMed:28392147, PubMed:28045099).

Background

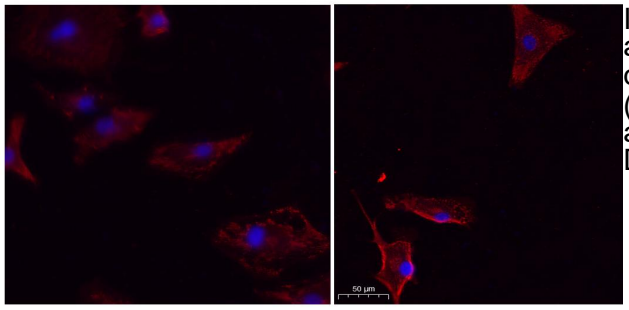
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the primary antibody was used at 4℃, over night with a 1:5000 dilution . The Dylight 800-conjugated Goat anti-Rabbit antibody



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Cleaved N-terminal GSDMD antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: THP-1 Lane 2: THP-1 was treated with Lipopolysaccharides Lane 3: THP-1 was treated with Phorbol 12-myristate 13-acetate Lane 4: THP-1 was treated with Lipopolysaccharides and Phorbol 12-myristate 13-acetate Predicted band size: 53kDa Observed band size: 35kDa



Immunofluorescence analysis of un-treated (left) A549 and UV treated(right) A549 cell. 1,primary Antibody was diluted at 1:200(4℃ overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature, 50min).3, Picture B: DAPI(blue) 10min.