



GSDMD N-terminal rabbit pAb

Catalog No	YP-Ab-12523
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	IF;WB;IHC
Gene Name	GSDMD
Immunogen	Synthesized peptide derived from human GSDMD. AA range:1-100
Specificity	The antibody detects endogenous full length and n-terminal fragment of gsdmd protein,
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IF: 1:50-200 WB: 1:1000-3000 IHC: 1:50-300
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	FKSG10;gasdermin D;Gasdermin domain-containing protein 1;gasderminD; Gasdermin-D;GSDMD;GSDMD-CT;GSDMD-NT;GSDMD_HUMAN
Observed Band	36 55kD
Calculated Molecular Weight	36 55kD
Cell Pathway	[Gasdermin-D]: Cytoplasm, cytosol . Inflammasome . In response to a canonical inflammasome stimulus, such as nigericin, recruited to NLRP3 inflammasome 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

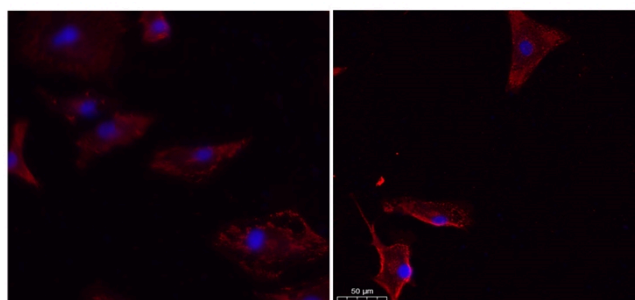
Avoid repeated freezing and thawing!

Usage suggestions

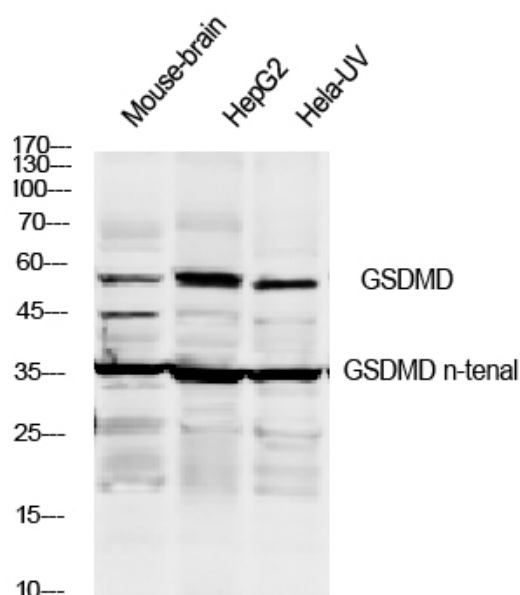
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



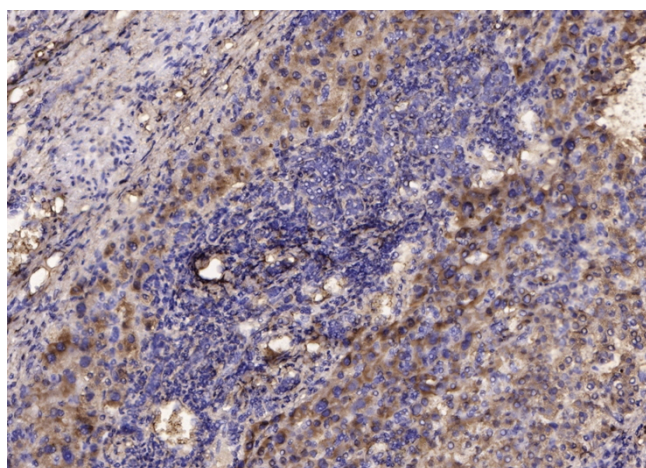
Products Images



Immunofluorescence analysis of un-treated (left) A549 and UV treated(right) A549 cell. 1,primary Antibody was diluted at 1:200(4°C 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.



Western blot analysis of lysates from 1)mouse-brain, 2)HepG2 cells treated by UV 15min,3) HepG2 cells, primary antibody was diluted at 1:1000, 4°over night, secondary antibody HRP goat anti rabbit (Immunoway:RS0002) was diluted at 1:10000



Immunohistochemical analysis of paraffin-embedded human Moderately differentiated hepatocellular carcinoma Antibody was diluted at 1:200(4° overnight).