

GSDMD N-terminal rabbit pAb

Catalog No :	YT7991
Reactivity :	Human;Mouse;Rat
Applications :	IF;WB;IHC
Target :	GSDMD
Fields :	>>Neutrophil extracellular trap formation;>>NOD-like receptor signaling pathway;>>Salmonella infection
Gene Name :	GSDMD
Protein Name :	Gasdermin domain-containing protein 1, Gasdermin-D, GSDMD, GSDMD-CT, GSDMD-NT, GSDMD_HUMAN
Human Swiss Prot No :	P57764
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
Dilution :	IF 1:50-200 WB 1:1000-3000 IHC 1:50-300
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year (Do not lower than -25°C)
Observed Band :	36 55kD

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).

Subcellular Location : [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 .

Expression : 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.

Tag : orthogonal

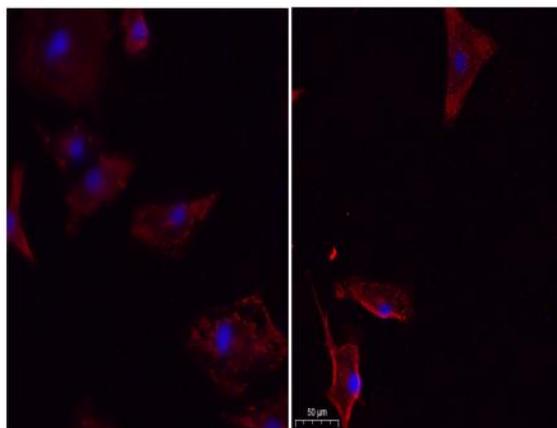
Sort : 1

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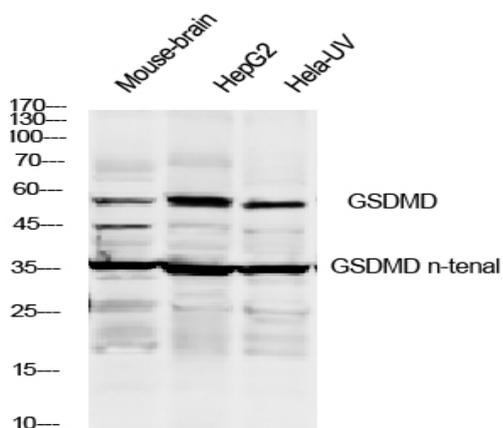
Host : Rabbit

Modifications : Unmodified

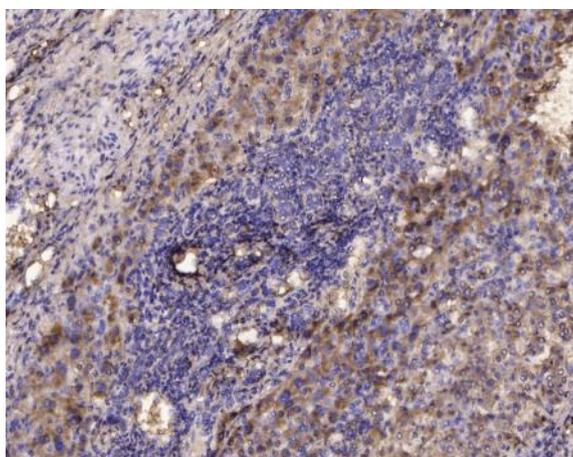
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Immunofluorescence analysis of un-treated (left) A549 and UV treated(right) A549 cell. 1,primary Antibody was diluted at 1:200(4°C overnight). 2, Goat Anti Rabbit IgG (H&L) - Alexa Fluor 594 Secondary antibody was diluted at 1:1000(room temperature,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



Western blot analysis of lysates from 1)mouse-brain, 2)Hela 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).