

Anti-DFNA5 / GSDME Antibody [PSH07-48]

HA722836



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human, Mouse, Rat
Applications:	WB
Molecular Wt:	Predicted band size: 55 kDa
Clone number:	PSH07-48

Description: Non-syndromic hearing impairment protein 5 is a protein that in humans is encoded by the DFNA5 gene. Hearing impairment is a heterogeneous condition with over 40 loci described. The protein encoded by this gene is expressed in fetal cochlea, however, its function is not known. Nonsyndromic hearing impairment is associated with a mutation in this gene. The observation that DFNA5 is epigenetically inactivated in a large number of cancers of frequent types (gastric, colorectal, and breast) is another important finding and is in line with its apoptosis-inducing properties. Indeed, if apoptosis is an intrinsic feature of DFNA5, shutting the gene down in tumor cells makes them more susceptible to uncontrolled cellular growth. Moreover, the fact that DFNA5 is regulated by P53 strongly suggests that DFNA5 is a tumor suppressor gene.

Immunogen: Recombinant protein within human GSDME aa 1-496.

Positive control: SH-SY5Y cell lysate, NCI-H226 cell lysate, A549 cell lysate, C2C12 cell lysate, Neuro-2a cell lysate, Human brain tissue lysate, Mouse brain tissue lysate, Rat brain tissue lysate.

Subcellular location: Cytoplasm, cytosol.

Database links: SwissProt: O60443 Human | Q9Z2D3 Mouse
Entrez Gene: 353316 Rat

Recommended Dilutions:
WB 1:2,000

Storage Buffer: PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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Orders:0086-571-88062880

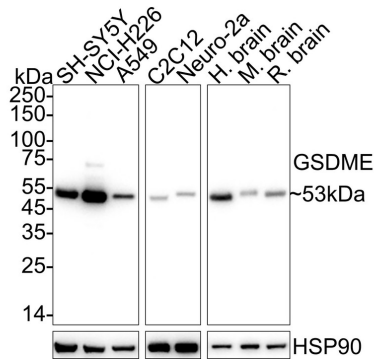
Technical:0086-571-89986345

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Images

Fig1: Western blot analysis of DFNA5 / GSDME on different lysates with Rabbit anti-DFNA5 / GSDME antibody (HA722836) at 1/2,000 dilution.



Lane 1: SH-SY5Y cell lysate
 Lane 2: NCI-H226 cell lysate
 Lane 3: A549 cell lysate
 Lane 4: C2C12 cell lysate
 Lane 5: Neuro-2a cell lysate
 Lane 6: Human brain tissue lysate
 Lane 7: Mouse brain tissue lysate
 Lane 8: Rat brain tissue lysate

Lysates/proteins at 20 µg/Lane.

Predicted band size: 55 kDa
 Observed band size: 55 kDa

Exposure time: 20 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722836) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Wei Y et al. GSDME-mediated pyroptosis promotes the progression and associated inflammation of atherosclerosis. Nat Commun. 2023 Feb
2. Ai YL et al. Mannose antagonizes GSDME-mediated pyroptosis through AMPK activated by metabolite GlcNAc-6P. Cell Res. 2023 Dec

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