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KD-Validated Anti-GEMIN8 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2064

Specification

KD-Validated Anti-GEMIN8 Mouse Monoclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q9NWZ8
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**Predicted, 29 kDa, observed, 31 kDa KDa**
Gene Name	**GEMIN8**
Aliases	**GEMIN8; Gem Nuclear Organelle Associated Protein 8; FAM51A1; Family With Sequence Similarity 51, Member A1; Gem-Associated Protein 8; FLJ20514; Gemin-8; Gem (Nuclear Organelle) Associated Protein 8; Protein FAM51A1**
Immunogen	**Recombinant protein of human GEMIN8**

KD-Validated Anti-GEMIN8 Mouse Monoclonal Antibody - Additional Information

Gene ID **54960**

Other Names
Gem-associated protein 8, Gemin-8, Protein FAM51A1, GEMIN8, FAM51A1

KD-Validated Anti-GEMIN8 Mouse Monoclonal Antibody - Protein Information

Name GEMIN8

Synonyms FAM51A1

Function
The SMN complex catalyzes the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome, and thereby plays an important role in the splicing of cellular pre- mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP (Sm core). In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP. To assemble core snRNPs, the SMN complex accepts the trapped 5Sm proteins from CLNS1A forming an intermediate. Binding of snRNA inside 5Sm triggers eviction of the SMN complex, thereby allowing binding of SNRPD3 and SNRPB to complete assembly of the core snRNP.

Cellular Location
Nucleus, gem. Cytoplasm. Note=Found in nuclear bodies called gems (Gemini of Cajal bodies) that are often in proximity to Cajal (coiled) bodies. Also found in the cytoplasm

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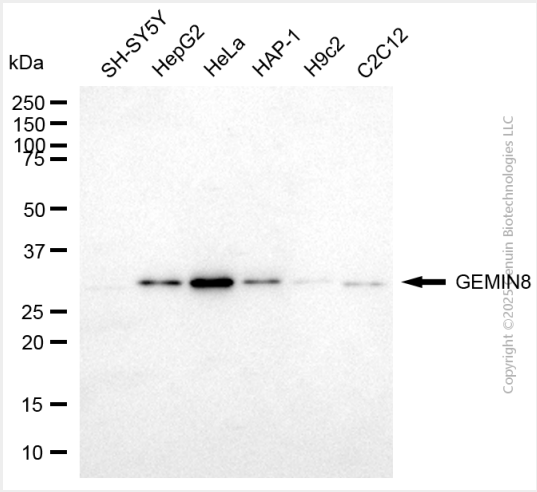
KD-Validated Anti-GEMIN8 Mouse Monoclonal Antibody - Protocols

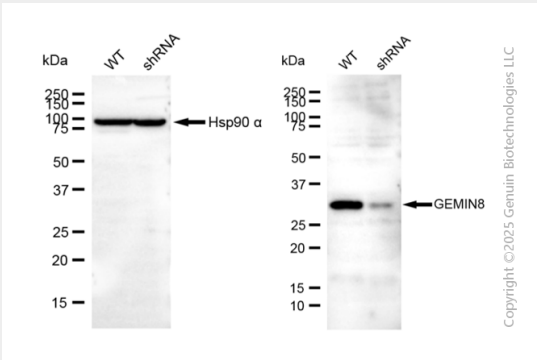
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-GEMIN8 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-GEMIN8 antibody (Cat#AGI2064). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-GEMIN8 antibody (Cat#AGI2064, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-GEMIN8 antibody (Cat#AGI2064). GEMIN8 expression in wild-type (WT) and GEMIN8 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-GEMIN8 antibody (Cat#AGI2064, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.