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KD-Validated Anti-HERPUD1 Mouse Monoclonal Antibody

Mouse monoclonal Antibody
Catalog # AGI2169

Specification

KD-Validated Anti-HERPUD1 Mouse Monoclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q15011
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG2a**
Calculated MW	**Predicted, 44 kDa, observed, 54 kDa KDa**
Gene Name	**HERPUD1**
Aliases	**HERPUD1; Homocysteine Inducible ER Protein With Ubiquitin Like Domain 1; HERP; KIAA0025; Mif1; SUP; Homocysteine-Inducible, Endoplasmic Reticulum Stress-Inducible, Ubiquitin-Like Domain Member 1; Homocysteine-Responsive Endoplasmic Reticulum-Resident Ubiquitin-Like Domain Member 1 Protein; Methyl Methanesulfonate (MMF)-Inducible Fragment Protein 1; omocysteine-Inducible Endoplasmic Reticulum Stress-Inducible Ubiquitin-Like Domain Member 1 Protein; MMS-Inducible; MIF1**
Immunogen	**Recombinant protein of human HERPUD1**

KD-Validated Anti-HERPUD1 Mouse Monoclonal Antibody - Additional Information

Gene ID	**9709**

Other Names
Homocysteine-responsive endoplasmic reticulum-resident ubiquitin-like domain member 1 protein, Methyl methanesulfonate (MMF)-inducible fragment protein 1, HERPUD1, HERP, KIAA0025, MIF1

KD-Validated Anti-HERPUD1 Mouse Monoclonal Antibody - Protein Information

Name HERPUD1

Synonyms HERP, KIAA0025, MIF1

Function
Component of the endoplasmic reticulum quality control (ERQC) system also called ER-associated degradation (ERAD) involved in ubiquitin-dependent degradation of misfolded endoplasmic reticulum proteins (PubMed:16289116, PubMed:28827405). Could enhance presenilin- mediated amyloid-beta protein 40

generation. Binds to ubiquilins and this interaction is required for efficient degradation of CD3D via the ERAD pathway (PubMed:18307982).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein

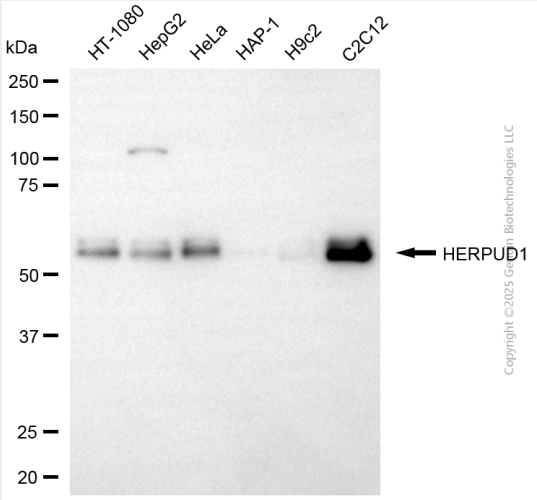
Tissue Location
Widely expressed; in the brain, expression seems to be restricted to neurons and vascular smooth muscle cells. Present in activated microglia in senile plaques in the brain of patients with Alzheimer disease

KD-Validated Anti-HERPUD1 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-HERPUD1 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-HERPUD1 antibody (Cat#AGI2169). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-HERPUD1 antibody (Cat#AGI2169, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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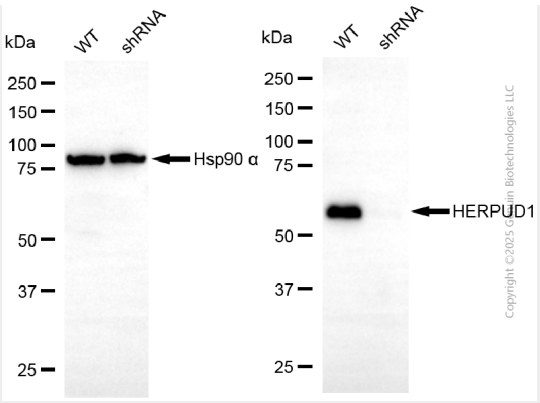

Western blotting analysis using anti-HERPUD1 antibody (Cat#AGI2169). HERPUD1 expression in wild-type (WT) and HERPUD1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-HERPUD1 antibody (Cat#AGI2169, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.