10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-CHCHD3 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI1947

Specification

KD-Validated Anti-CHCHD3 Mouse Monoclonal Antibody - Product Information

Application	**WB**
Primary Accession	Q9NX63
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**Predicted, 26 kDa, observed, 26 kDa KDa**
Gene Name	**CHCHD3**
Aliases	**CHCHD3; Coiled-Coil-Helix-Coiled-Coil-Helix Domain Containing 3; MINOS3; PPP1R22; MICOS19; Mic19; Mitochondrial Contact Site And Cristae Organizing System Subunit 19; Mitochondrial Inner Membrane Organizing System 3; Protein Phosphatase 1, Regulatory Subunit 22; MICOS Complex Subunit MIC19; FLJ20420; Coiled-Coil-Helix-Coiled-Coil-Helix Domain-Containing Protein 3, Mitochondrial; Coiled-Coil-Helix-Coiled-Coil-Helix Domain-Containing Protein 3; MIC19**
Immunogen	**Recombinant protein of human CHCHD3**

KD-Validated Anti-CHCHD3 Mouse Monoclonal Antibody - Additional Information

Gene ID	**54927**

Other Names
MICOS complex subunit MIC19, Coiled-coil-helix-coiled-coil-helix domain-containing protein 3, CHCHD3, MIC19, MINOS3

KD-Validated Anti-CHCHD3 Mouse Monoclonal Antibody - Protein Information

Name CHCHD3

Synonyms MIC19, MINOS3

Function
Component of the MICOS complex, a large protein complex of the mitochondrial inner membrane that plays crucial roles in the maintenance of crista junctions, inner membrane architecture, and formation of contact sites to the outer membrane (PubMed:25781180, PubMed:32567732, PubMed:33130824). Plays an

important role in the maintenance of the MICOS complex stability and the mitochondrial cristae morphology (PubMed:25781180, PubMed:32567732, PubMed:33130824). Has also been shown to function as a transcription factor which binds to the BAG1 promoter and represses BAG1 transcription (PubMed:22567091).

Cellular Location
Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q9CRB9}; Lipid-anchor; Intermembrane side {ECO:0000250|UniProtKB:Q9CRB9}. Cytoplasm. Nucleus Mitochondrion

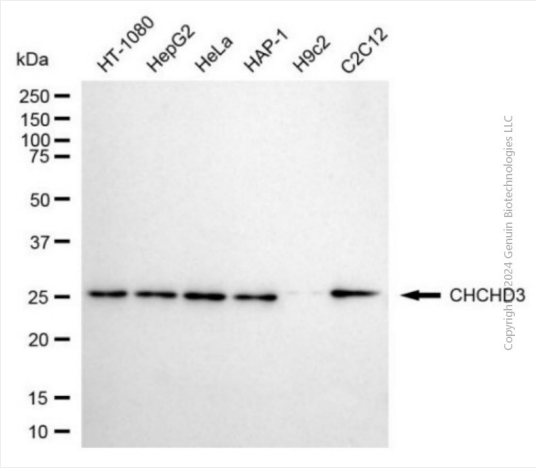
Tissue Location
Detected at low levels in brain, placenta, lung, liver, kidney and pancreas with increased levels in heart and skeletal muscle. Higher expression in primary lung cancers than in normal lung tissue.

KD-Validated Anti-CHCHD3 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-CHCHD3 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-CHCHD3 antibody (Cat#AGI1947). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CHCHD3 antibody (Cat#AGI1947, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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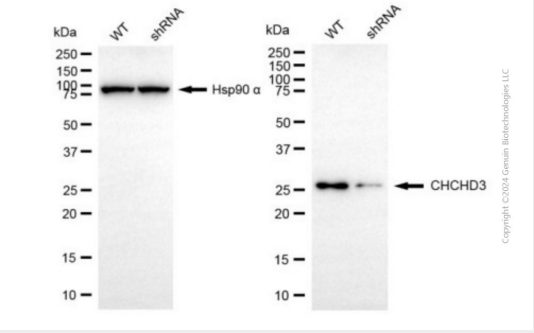

Western blotting analysis using anti-CHCHD3 antibody (Cat#AGI1947). CHCHD3 expression in wild type (WT) and CHCHD3 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CHCHD3 antibody (Cat#AGI1947, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.