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[KO Validated] DHODH Rabbit mAb

Catalog No.: A28565 KO Validated Recombinant

Basic Information

Observed MW
43 kDa

Calculated MW
43 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,ELISA

Cross-Reactivity
Mouse

CloneNo number
ARC80602

Background

Enables dihydroorotase activity and dihydroorotate dehydrogenase activity. Involved in 'de novo' UMP biosynthetic process and UDP biosynthetic process. Located in mitochondrion. Is expressed in several structures, including branchial arch; embryo ectoderm; limb bud; respiratory system; and urinary system. Human ortholog(s) of this gene implicated in postaxial acrofacial dysostosis. Orthologous to human DHODH (dihydroorotate dehydrogenase (quinone))

Recommended Dilutions

WB	1:2000 - 1:5000
IP	0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells
IF/ICC	1:200 - 1:400
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements. For high-ratio antibody dilutions (≥1:10000)a sequential dilution method is strongly recommended to ensure measurement accuracy.

Immunogen Information

Gene ID
56749

Swiss Prot
O35435

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
2810417D19Rik

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3

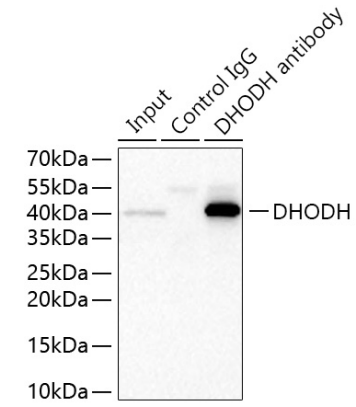
Contact

400-999-6126

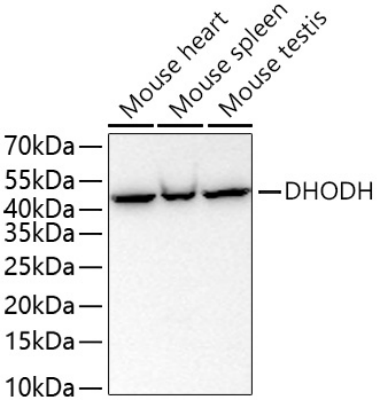
cn.market@abclonal.com.cn

www.abclonal.com.cn

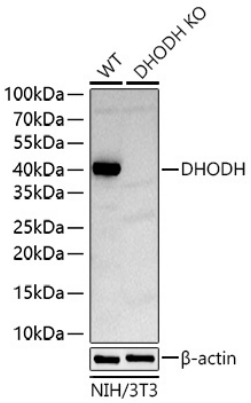
Validation Data



Immunoprecipitation of DHODH from 300 µg extracts of Mouse heart tissue was performed using 2 µg of [KO Validated] DHODH Rabbit mAb (A28565).Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using [KO Validated] DHODH Rabbit mAb (A28565) at a dilution of 1:5000.

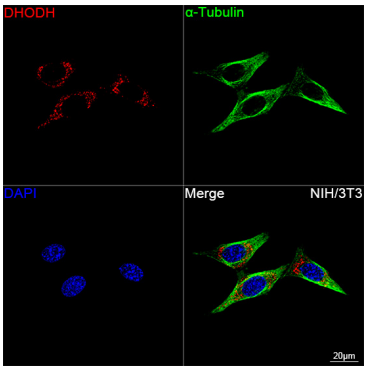


Western blot analysis of various lysates using [KO Validated] DHODH Rabbit mAb (A28565) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



Western blot analysis of lysates from wild type (WT) and DHODH knockout (KO) NIH/3T3 cells using [KO Validated] DHODH Rabbit mAb (A28565) at 1:5000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 90 s.

Validation Data



Confocal imaging of NIH/3T3 cells using [KO Validated] DHODH Rabbit mAb (A28565, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.