

## ARG43429 anti-DHODH antibody [4E3]

Package: 50 µg  
Store at: -20°C

### Summary

Product Description	Mouse Monoclonal antibody [4E3] recognizes DHODH
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, WB
Host	Mouse
Clonality	Monoclonal
Clone	4E3
Isotype	IgG2b
Target Name	DHODH
Species	Human
Immunogen	Synthetic peptide corresponding to aa. 132-173 of Human DHODH. (RVFRL PEDQA VINRY GFNSH GLSVV EHRLR ARQKQ QAKLT ED)
Conjugation	Un-conjugated
Alternate Names	URA1; POADS; DHOdehase; Dihydroorotate dehydrogenase (quinone), mitochondrial; DHOdehase; EC 1.3.5.2; Dihydroorotate oxidase

### Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 43 kDa	

### Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed

before use.

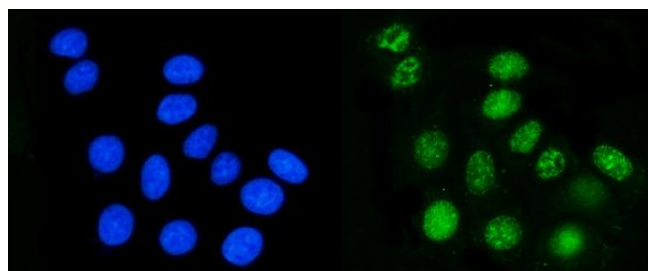
#### Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

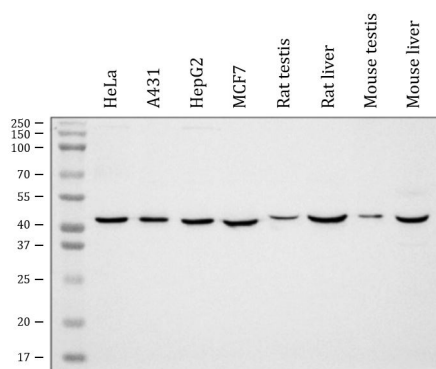
Gene Symbol	DHODH
Gene Full Name	dihydroorotate dehydrogenase (quinone)
Background	The protein encoded by this gene catalyzes the fourth enzymatic step, the ubiquinone-mediated oxidation of dihydroorotate to orotate, in de novo pyrimidine biosynthesis. This protein is a mitochondrial protein located on the outer surface of the inner mitochondrial membrane. [provided by RefSeq, Jul 2008]
Function	Catalyzes the conversion of dihydroorotate to orotate with quinone as electron acceptor. [UniProt]
Calculated Mw	43 kDa
PTM	The uncleaved transit peptide is required for mitochondrial targeting and proper membrane integration. [UniProt]
Cellular Localization	Mitochondrion inner membrane; Single-pass membrane protein. [UniProt]

## Images



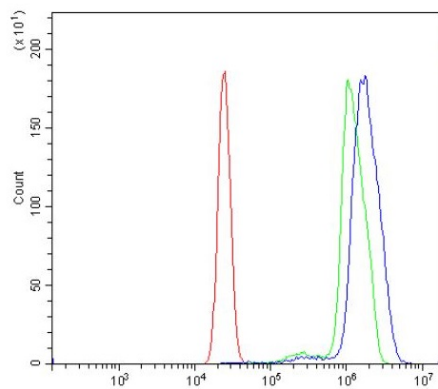
ARG43429 anti-DHODH antibody [4E3] ICC/IF image

Immunofluorescence: MCF7 cells were blocked with 10% goat serum and then stained with ARG43429 anti-DHODH antibody [4E3] (green) at 5 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



ARG43429 anti-DHODH antibody [4E3] WB image

Western blot: 30 µg of sample under reducing conditions. HeLa, A431, HepG2, MCF7, Rat testis, Rat liver, Mouse testis and Mouse liver lysates stained with ARG43429 anti-DHODH antibody [4E3] at 0.5 µg/ml dilution, overnight at 4°C.



#### ARG43429 anti-DHODH antibody [4E3] FACS image

Flow Cytometry: U937 cells were blocked with 10% normal goat serum and then stained with ARG43429 anti-DHODH antibody [4E3] (blue) at  $1\text{ }\mu\text{g}/10^6$  cells for 30 min at  $20^\circ\text{C}$ , followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was mouse IgG ( $1\text{ }\mu\text{g}/10^6$  cells) used under the same conditions. Unlabelled sample (red) was also used as a control.