Datasheet for ABIN2777080

anti-DHODH antibody (C-Term)

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Overview

Quantity:	100 µL
Target:	DHODH
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Dog, Zebrafish (Danio rerio), Horse, Cow, Rabbit, Guinea Pig, Saccharomyces cerevisiae
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DHODH antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human DHODH
Sequence:	GGLSGKPLRD LSTQTIREMY ALTQGRVPII GVGGVSSGQD ALEKIRAGAS
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Yeast: 91%, Zebrafish: 79%
Characteristics:	This is a rabbit polyclonal antibody against DHODH. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	DHODH
Alternative Name:	DHODH (DHODH Products)
Background:	DHODH 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.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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Alias Symbols: DHOdehase, URA1, POADS Protein Interaction Partner: UBC, TMED10, MT2A, FKBP8, SSBP1, SDHA, PLP2, OGDH, NDUFS8, HNRNPM, ILF3, CYC1, Protein Size: 395
Molecular Weight:	43 kDa
Gene ID:	1723
NCBI Accession:	NM_001361, NP_001352
UniProt:	Q02127
Pathways:	Ribonucleoside Biosynthetic Process, Protein targeting to Nucleus

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 395 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:

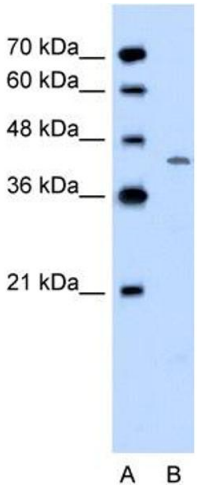
Palmieri, Gojis, Rudraraju, Stamp-Vincent, Wilson, Langdon, Gourley, Faratian: "Expression of steroid receptor coactivator 3 in ovarian epithelial cancer is a poor prognostic factor and a marker for platinum resistance." in: **British journal of cancer**, Vol. 108, Issue 10, pp. 2039-44, (2013) (PubMed).

Viringipurampeer, Ferreira, DeMaria, Yoon, Shan, Moosajee, Gregory-Evans, Ngai, Gregory-Evans : "Pax2 regulates a fadd-dependent molecular switch that drives tissue fusion during eye development." in: **Human molecular genetics**, Vol. 21, Issue 10, pp. 2357-69, (2012) (PubMed).

Lee, Doberstein, Baumgarten, Wieland, Ungerer, Bürger, Hardt, Boehncke, Pfeilschifter, Mihic-Probst, Mittelbronn, Gutwein: "PAX2 regulates ADAM10 expression and mediates anchorage-independent cell growth of melanoma cells." in: **PLoS ONE**, Vol. 6, Issue 8, pp. e22312, (2011) (PubMed).

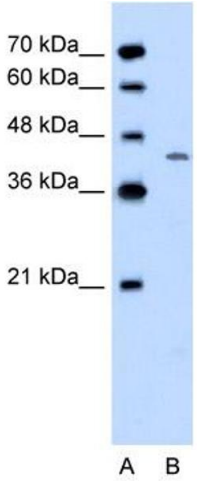
Yu, Moriniere, Birke, Neumann, Fuchshofer, Kampik, Bloemendal, Welge-Lussen: "Reactivation of optic nerve head astrocytes by TGF-beta2 and H2O2 is accompanied by increased Hsp32 and Hsp47 expression." in: **Investigative ophthalmology & visual science**, Vol. 50, Issue 4, pp. 1707-17, (2009) (PubMed).

Hurtado, Holmes, Geistlinger, Hutcheson, Nicholson, Brown, Jiang, Howat, Ali, Carroll: " Regulation of ERBB2 by oestrogen receptor-PAX2 determines response to tamoxifen." in: **Nature**, Vol. 456, Issue 7222, pp. 663-6, (2008) (PubMed).



Western Blotting

Image 1. WB Suggested Anti-DHODH Antibody Titration: 0.2-1 ug/ml Positive Control: Jurkat cell lysate DHODH is supported by BioGPS gene expression data to be expressed in Jurkat



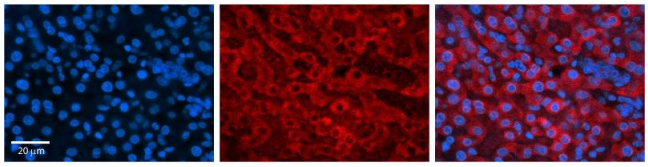
Western Blotting

Image 2. WB Suggested Anti-DHODH

Antibody Titration: 0.2-1 µg/mL

Positive Control: Jurkat cell lysate

DHODH is supported by BioGPS gene expression data to be expressed in Jurkat



Immunohistochemistry

Image 3. DHODH antibody - C-terminal region Formalin Fixed Paraffin Embedded Tissue: Human Liver Tissue Observed Staining: Cytoplasm in hepatocytes Primary Antibody Concentration: 1:100 Secondary Antibody: Donkey anti-Rabbit-Cy3 Secondary Antibody Concentration: 1:200 Magnification: 20X Exposure Time: 0.5 - 2.0 sec