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

DHRS2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5339B

Specification

DHRS2 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q13268
Other Accession	NP_878912.1
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**29927**
Antigen Region	**197-225**

DHRS2 Antibody (C-term) - Additional Information

Gene ID 10202

Other Names
Dehydrogenase/reductase SDR family member 2, mitochondrial, 111-, Dicarbonyl reductase HEP27, Protein D, DHRS2

Target/Specificity
This DHRS2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 197-225 amino acids from the C-terminal region of human DHRS2.

Dilution
WB~~1:16000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DHRS2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DHRS2 Antibody (C-term) - Protein Information

Name DHRS2 (HGNC:18349)

Synonyms SDR25C1

Function NADPH-dependent oxidoreductase which catalyzes the reduction of dicarbonyl compounds. Displays reductase activity in vitro with 3,4- hexanedione, 2,3-heptanedione and 1-phenyl-1,2-propanedione as substrates (PubMed:16685466). May function as a dicarbonyl reductase in the enzymatic inactivation of reactive carbonyls involved in covalent modification of cellular components (PubMed:16685466). Also displays a minor hydroxysteroid dehydrogenase activity toward bile acids such as ursodeoxycholic acid (UDCA) and isoursodeoxycholic acid (isoUDCA), which makes it unlikely to control hormone levels (PubMed:16685466). Doesn't show any activity in vitro with retinoids and sugars as substrates (PubMed:16685466). Attenuates MDM2-mediated p53/TP53 degradation, leading to p53/TP53 stabilization and increased transcription activity, resulting in the accumulation of MDM2 and CDKN1A/p21 (PubMed:20547751). Reduces proliferation, migration and invasion of cancer cells and well as the production of ROS in cancer (PubMed:29106393).

Cellular Location
Mitochondrion matrix. Nucleus. Note=A minor fraction of the protein is translocated from the mitochondria to the nucleus, after cleavage of the targeting signal

Tissue Location
Widely expressed, with highest levels in liver and kidney, followed by heart, spleen, skeletal muscle and placenta. In hemopoietic cells, expressed in dendritic cells, but not in monocytes, macrophages, granulocytes, nor in B and T lymphocytes

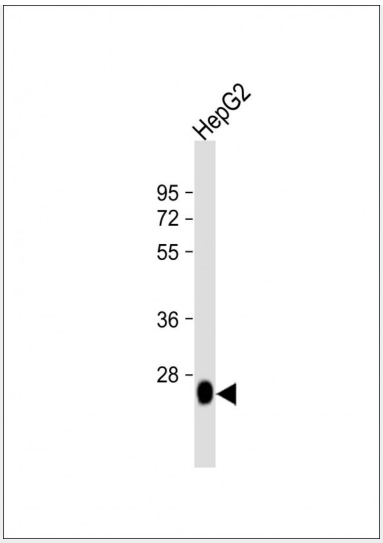
DHRS2 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

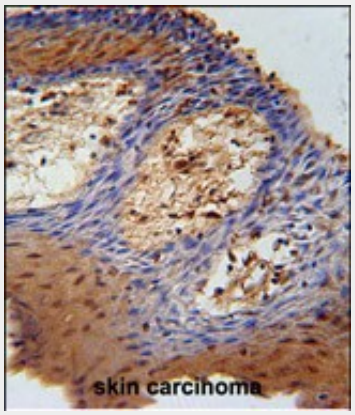
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DHRS2 Antibody (C-term) - Images

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



Anti-DHRS2 Antibody (C-term) at 1:16000 dilution + HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 30 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



DHRS2 Antibody (C-term) (Cat. #AP5339b) immunohistochemistry analysis in formalin fixed and paraffin embedded human skin carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the DHRS2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

DHRS2 Antibody (C-term) - Background

DHRS2 displays NADPH-dependent dicarbonyl reductase activity in vitro with 3,4-Hexanedione, 2,3-Heptanedione and 1-Phenyl-1,2-propanedione as substrates. DHRS2 do not reductase activity is displayed in vitro with steroids, retinoids and sugars as substrates. This protein may inhibit cell replication.

DHRS2 Antibody (C-term) - References

Monge, M., et al. Carcinogenesis 30(8):1288-1297(2009)
Persson, B., et al. Chem. Biol. Interact. 178 (1-3), 94-98 (2009)
Shafqat, N., et al. Cell. Mol. Life Sci. 63(10):1205-1213(2006)