abcam

Product datasheet

Recombinant human IDH2 (mutated R140Q) protein ab198153

2 Images

Description

Product name	Recombinant human IDH2 (mutated R140Q) protein
Biological activity	Specific Activity: ≥ 61 pmol/min/µg Assay Conditions: IDH reductive activity was measured in 200 µl reaction containing 25 mM Tris (pH 7.4), 150 mM NaCl, 10 mM $MgCl_2$, 0.03% BSA, 1 mM alpha-Ketoglutarate, 10 µM NADPH and IDH. Depletion of NADPH was monitored continuously at Abs340 nm for 20 min. Molar extinction coefficient of NADPH is 6,200 $M^{-1}cm^{-1}$.
Purity	> 90 % SDS-PAGE. Affinity purified.
Expression system	Baculovirus infected Sf9 cells
Accession	P48735
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MAGYLRVVRSLCRASGSRPAWAPAALTAPTSQEQPRRH YADKRIKVAKPV VEMDGDEMTRIIWQFIKEKLILPHVDIQLKYFDLGLPNRDQT DDQVTIDS ALATQKYSVAVKCATITPDEARVEEFKLKKMWKSPNGTIQ NILGGTVFRE PIICKNIPRLVPGWTKPITIGRHAHGDQYKATDFVADRAGTF KMVFTPKD GSGVKEWEVYNFPAGGVGMGMYNTDESISGFAHSCFQY AIQKKWPLYMST KNTILKAYDGRFKDIFQEIFDKHYKTDFDKNKIWYEHRLIDD MVAQVLKS SGGFVWACKNYDGDVQSDILAQGFGSLGLMTSVLVCPD GKTIEAEAAHGT VTRHYREHQKGRPTSTNPIASIFAWTRGLEHRGKLDGNQD

LIRFAQMLEK
VCVETVESGAMTKDLAGCIHGLSNVKLNEHFLNTTDFLDTI
KSNLDRALG RQDYKDDDDK

Predicted molecular weight	52 kDa including tags
Amino acids	1 to 452
Modifications	mutated R140Q
Tags	DDDDK tag C-Terminus
Additional sequence information	GenBank Accession No. NM_002168

Specifications

Our **Abpromise guarantee** covers the use of **ab198153** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	Functional Studies SDS-PAGE
Form	Liquid
Additional notes	ab198153 is useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling. Cherry Picking Reason: Threshold score met

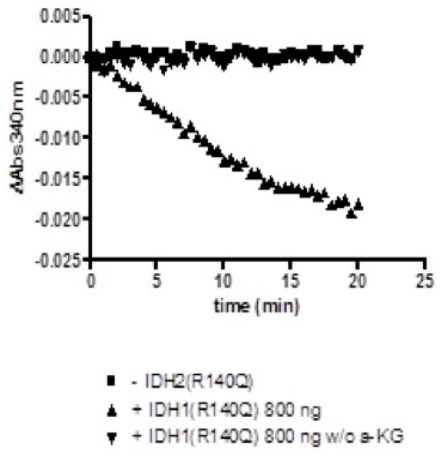
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8 Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 0.04% Tween, 20% Glycerol (glycerin, glycerine) 80 µg/ml DDDDK peptide This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

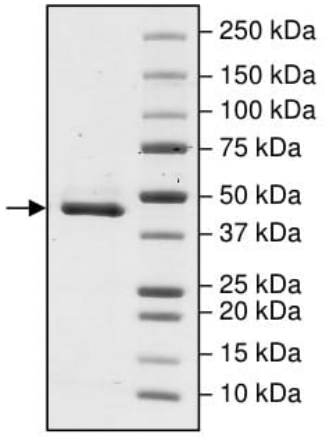
Function	Plays a role in intermediary metabolism and energy production. It may tightly associate or interact with the pyruvate dehydrogenase complex.
Involvement in disease	D-2-hydroxyglutaric aciduria 2 Glioma enetic variations are associated with cartilaginous tumors such as enchondroma or chondrosarcoma.
Sequence similarities	Belongs to the isocitrate and isopropylmalate dehydrogenases family.
Post-translational modifications	Acetylation at Lys-413 dramatically reduces catalytic activity. Deacetylated by SIRT3.
Cellular localization	Mitochondrion.

Images



Functional Studies - Recombinant human IDH2 (mutated R140Q) protein (ab198153)

Specific activity analysis for ab198153.



SDS-PAGE - Recombinant human IDH2 (mutated R140Q) protein (ab198153)

4-20% SDS-PAGE analysis of IDH2 using 2.4 µg of ab198153, with Coomassie staining.

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