antibodies - online.com







IDH1 Protein (AA 2-414) (His tag)

Images



Overview

Quantity:	100 μg
Target:	IDH1
Protein Characteristics:	AA 2-414
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IDH1 protein is labelled with His tag.

Product Details

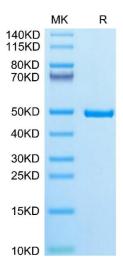
Purpose:	Human IDH1 Protein
Sequence:	Ser2-Leu414
Characteristics:	Recombinant Human IDH1 Protein is expressed from E.coli with His tag at the C-Terminus.It contains Ser2-Leu414.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 90 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.

Target Details

Target:	IDH1
Alternative Name:	IDH1 (IDH1 Products)

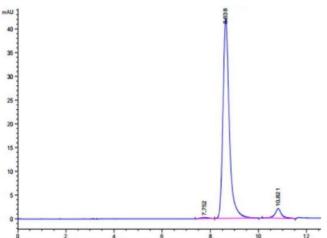
Target Details

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Background:	Isocitrate dehydrogenase (IDH) is a metabolic enzyme that converts isocitrate to α -ketoglutarate (α -KG). Genetic gain-of-function mutations in IDH1 and IDH2 confer a neomorphic activity that allow reduction of α -KG to (R)-2- hydroxyglutarate, the accumulation of which results in the development of cancers like low grade gliomas and leukemia. Isocitrate dehydrogenase 1 (IDH1) is the most frequently mutated metabolic gene in cancer.
Molecular Weight:	47.35 kDa same as Tris-Bis PAGE result.
UniProt:	075874
Pathways:	Warburg Effect
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Supplied as 0.22µm filtered solution in 50 mM Tris, 200 mM NaCl, 1 mM DTT, 10 % Glycerol (pH 7.5).
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-80 °C
Storage Comment:	Valid for 12 months from date of receipt when stored at -80°C.,Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

Image 1. Human IDH1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human IDH1 is greater than $95\,\%$ as determined by SEC-HPLC.