

Datasheet for ABIN2785662

anti-Glutathione Reductase antibody (N-Term)[Go to Product page](#)**1** Image**1** Publication

Overview

Quantity:	100 µL
Target:	Glutathione Reductase (GSR)
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Guinea Pig, Rabbit, Cow, Dog, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glutathione Reductase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human GSR
Sequence:	PTIEVSGKKY TAPHILIATG GMPSTPHESQ IPGASLGITS DGFFQLEELP
Predicted Reactivity:	Cow: 93%, Dog: 93%, Guinea Pig: 100%, Horse: 86%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 93%
Characteristics:	This is a rabbit polyclonal antibody against GSR. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Glutathione Reductase (GSR)
---------	-----------------------------

Target Details

Alternative Name:	GSR (GSR Products)
Background:	<p>GSR belongs to the class-I pyridine nucleotide-disulfide oxidoreductase family. It maintains high levels of reduced glutathione in the cytosol. Both glutathione and glutathione reductase are inducible by D3T, and that upregulation of GSH biosynthesis underlies D3T-mediated cytoprotection against ROS/RNS-elicited injury to human vascular smooth muscle cells.</p> <p>Alias Symbols: MGC78522</p> <p>Protein Interaction Partner: SUMO1, CNBP2, GINS2, PROSC, AHSA1, NDRG1, DDX39A, NAMPT, KYNU, DDX39B, RPS6KA1, PEPD, MVD, LDHA, HSPD1, GBP2, EEF2, ADSS, C11orf49, UBC, FOLR1, ISG15, ELAVL1, SUMO4, PJA1, OCM, GSR,</p> <p>Protein Size: 522</p>
Molecular Weight:	56 kDa
Gene ID:	2936
NCBI Accession:	NM_000637 , NP_000628
UniProt:	P00390
Pathways:	Thyroid Hormone Synthesis , Cell RedoxHomeostasis

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 522 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
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.

Handling

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:	Hoffmann, Dietrich, Herrmann, Schacht, Albrecht, Methner: "Dimethyl Fumarate Induces Glutathione Recycling by Upregulation of Glutathione Reductase." in: Oxidative medicine and cellular longevity , Vol. 2017, pp. 6093903, (2017) (PubMed).
-------------------	---

Images



Western Blotting

Image 1. WB Suggested Anti-GSR Antibody Titration: 0.2-1 ug/ml

ELISA Titer: 1:312500

Positive Control: Hela cell lysate