Datasheet for ABIN3044103

anti-Glutaredoxin 2 antibody (Middle Region)

2 Images

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Overview

Quantity:	100 µg
Target:	Glutaredoxin 2 (GRX2)
Binding Specificity:	AA 103-119, Middle Region
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Glutaredoxin-2, mitochondrial(GLRX2) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human Glutaredoxin 2(103-119aa EYGNQFQDALYKMTGER), different from the related rat sequence by two amino acids, and from the related mouse sequence by one amino acid.
Sequence:	EYGNQFQDAL YKMTGER
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.
Characteristics:	Rabbit IgG polyclonal antibody for Glutaredoxin-2, mitochondrial(GLRX2) detection. Tested with

Product Details

	WB, IHC-P in Human,Mouse,Rat. Gene Name: glutaredoxin 2 Protein Name: Glutaredoxin-2, mitochondrial
Purification:	Immunogen affinity purified.

Target Details

Target:	Glutaredoxin 2 (GRX2)
Alternative Name:	GLRX2 (GRX2 Products)
Background:	GLRX2(Glutaredoxin-2) also known as Glutaredoxin-2, mitochondrial or GRX2, is a protein that in humans is encoded by the GLRX2 gene. Glutaredoxins(e.g., GLRX) are a family of glutathione-dependent hydrogen donors that participate in a variety of cellular redox reactions. By sequence analysis, Lundberg et al.(2001) and Gladyshev et al.(2001) identified the GLRX2 gene within a clone mapping to chromosome 1q31.2-q31.3. Lundberg et al.(2001) determined that the GLRX2 gene contains 5 exons spanning about 9.6 kb. The GLRX2B transcript uses a first exon(exon 1B) located upstream from the first exon used by the GLRX2A transcript(exon 1A), suggesting that alternative splicing generates the isoforms. Lundberg et al.(2001)assayed reductase activity in recombinant proteins of both GLRX2 isoforms. They found that both have GSH-dependent dehydroascorbate reductase activity and 2-hydroxyethyl disulfide reductase activity. Synonyms: bA101E13.1(GRX2 glutaredoxin(thioltransferase) 2) antibody|bA101E13.1 antibody|CGI133 antibody|Glrx2 antibody|GLRX2_HUMAN antibody|Glutaredoxin-2 antibody|Glutaredoxin-2, mitochondrial antibody|GRX2 antibody|mitochondrial antibody
Pathways:	Cell RedoxHomeostasis

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 μg/mL, Tested Species: Human, Rat, Predicted Species: Mouse IHC-P: Concentration: 0.5-1 μg/mL, Tested Species: Human, Rat, Predicted Species: Mouse, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

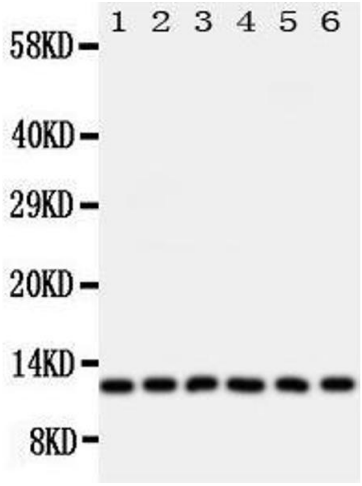
Application Details

	ABIN921231 in IHC(P).
Restrictions:	For Research Use only

Handling

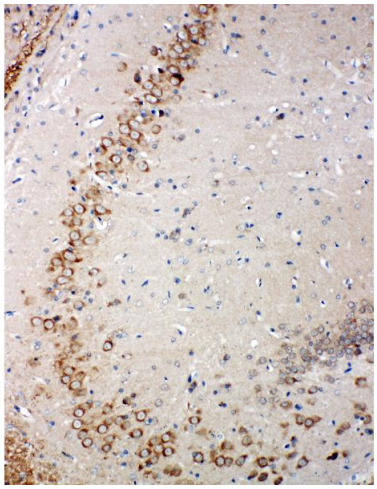
Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Anti-Glutaredoxin 2 antibody, Western blotting Lane 1: Rat Testis Tissue Lysate Lane 2: HELA Cell Lysate Lane 3: U87 Cell Lysate Lane 4: NEU Cell Lysate Lane 5: JURKAT Cell Lysate Lane 6: MCF-7 Cell Lysate



Immunohistochemistry

Image 2. Anti-Glutaredoxin 2 antibody, IHC(P) IHC(P): Rat Brain Tissue