Datasheet for ABIN7599022

anti-Glutaredoxin 2 antibody (AA 1-164)

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Overview

Quantity:	100 µg
Target:	Glutaredoxin 2 (GRX2)
Binding Specificity:	AA 1-164
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Glutaredoxin 2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-GRX2/GLRX2 Antibody Picoband®
Immunogen:	E.coli-derived human GRX2/GLRX2 recombinant protein (Position: M1-Q164).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-GRX2/GLRX2 Antibody Picoband® (ABIN7599022). Tested in ELISA, Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Glutaredoxin 2 (GRX2)
Alternative Name:	GLRX2 (GRX2 Products)
Background:	Synonyms: Cytoskeleton-associated protein 5, Colonic and hepatic tumor overexpressed gene protein, Ch-TOG, CKAP5, KIAA0097 Tissue Specificity: Overexpressed in hepatomas and colonic tumors. Also expressed in skeletal muscle, brain, heart, placenta, lung, liver, kidney and pancreas. Expression is elevated in the brain, highly expressed in the Purkinje cell bodies of the cerebellum. 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.
Molecular Weight:	18 kDa
Gene ID:	51022
Pathways:	Cell RedoxHomeostasis

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse Immunohistochemistry (Paraffin-embedded Section), 2-5 µg/mL, Human Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Gladyshev, V. N., Liu, A., Novoselov, S. V., Krysan, K., Sun, Q.-A., Kryukov, V. M., Kryukov, G. V., Lou, M. F.Identification and characterization of a new mammalian glutaredoxin (thioltransferase), Grx2.J. Biol. Chem. 276: 30374-30380, 2001. 2. Lilig, C. H., Berndt, C., Vergnolle, O., Lonn, M. E., Hudemann, C., Bill, E., Holmgren, A.Characterization of human glutaredoxin 2 as iron-sulfur protein: a possible role as redox sensor.Proc. Nat. Acad. Sci. 102:

Application Details

	8168-8173, 2005. 3. Lundberg, M., Johansson, C., Chandra, J., Enoksson, M., Jacobsson, G., Ljung, J., Johansson, M., Holmgren, A.Cloning and expression of a novel human glutaredoxin (Grx2) with mitochondrial and nuclear isoforms.J. Biol. Chem. 276: 26269-26275, 2001.
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 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.