Human Glutaredoxin 3/GLRX3 Alexa Fluor® 532-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 791431

Catalog Number: FAB7560X

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Glutaredoxin 3/GLRX3 in ELISAs.
Source	Monoclonal Mouse IgG_{2B} Clone # 791431
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human Glutaredoxin 3/GLRX3 Asn126-Lys294 Accession # O76003
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

GLRX3 (Glutaredoxin 3; also PICOT, PKC-theta-interacting protein, and Thioredoxin-like protein 2/TXNL2) is a 37-40 kDa member of the multidomain subgroup, monothiol glutaredoxin group of glutaredoxin/GTX proteins. It has widespread expression but is not found ubiquitously. Cells known to express cytosolic GLRX3 are principally epithelial in type, and include breast and adrenal epithelium, pancreatic exocrine gland epithelium, and proximal tubule renal epithelium. Cardiac muscle may also express GLRX3. By inference, it is suggested to be involved in cell proliferation and has also been associated with both PKC-theta regulation and MLP/muscle LIM protein-mediated cardiac contractility. Human GLRX3 is 335 amino acids (aa) in length. It contains an N-terminal thioredoxin-like domain (aa 2-117) that is followed by two PICOT homology domains (aa 144-236 and 237-335). The thioredoxin domain does not possess a typical disulfide, and it is suggested that this domain does not demonstrate redox activity. The PICOT domains will interact with intracellular proteins. GLRX3 exists as both a monomer and homodimer, with the homodimer incorporating two Fe/S clusters into their PICOT domains. These clusters serve as redox sensors within the cell. Over aa 126-294, human GLRX3 shares 98% aa sequence identity with mouse GLRX3.

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