Human Nucleoredoxin Alexa Fluor® 594-conjugated Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF5719T
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects endogenous human Nucleoredoxin in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human NRX Asn131-Ile435 Accession # Q6DKJ4
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 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.

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

Nucleoredoxin (NRX; also known as NXN and Red-1) is a 51-55 kDa member of the thioredoxin (TXR) family of proteins. It is widely expressed, and exists in both the nucleus and cytoplasm of cells where it regulates two pathways. In the nucleus, NRX may act as a transcription factor in the Wnt-pathway; a stable (reduced) NRX binds to DVL, thereby blocking downstream Wnt/β-catenin signaling. It also binds to PP2A subunits $PP2A_C$ and $PP2A_A$, generating an active PP2A complex. Human NRX is 435 amino acids (aa) in length and contains a TXR domain (aa 167-321) that shows a WCPPC catalytic site, and a substrate recognition PDI-b' region (aa 312-427). There are three potential isoform variants. Over amino acids 131-435, human NRX shares 99% aa identity with mouse NRX.

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