

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects endogenous human Nucleoredoxin in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human NRX Asn131-Ile435 Accession # Q6DKJ4
<b>Conjugate</b>	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
<b>Formulation</b>	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

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	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<sub>C</sub> and PP2A<sub>A</sub>, 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.

#### PRODUCT SPECIFIC NOTICES

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