

DESCRIPTION

Specificity	Detects Nitrotyrosine adducts on proteins in Western blots. It does not cross-react with phosphotyrosine or 4-hydroxynonenal adducts. Unfixed cells, tissues, and proteins can be treated with Peroxynitrite (Catalog # Source)	Monoclonal Mouse IgG ₃ Clone # 306507
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	Nitrotyrosine-modified KLH	
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

3-Nitrotyrosine is formed when tyrosine is reacted with peroxynitrite. Since peroxynitrite is formed from nitric oxide and superoxide anion, nitrotyrosine adducts on proteins have been used as markers of oxidative cellular damage and macrophage activation. Elevated nitrotyrosine immunoreactivity has been found in inflammation, osteoarthritis, neurodegenerative diseases, and ischemic damage to the heart and brain.

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