

Nitrotyrosine Monoclonal Antibody (7A5)

Product Specifications

Catalog Number:	905-763-100
Host:	Mouse
Isotype:	IgG ₁
Species Reactivity:	Human, mouse, rat, dog
Applications: <i>The optimal dilution for a specific application must be determined by the investigator</i>	WB: 0.5 µg/mL (ECL) ELISA: 0.05 µg/mL
Concentration:	See product label
Purification:	Thiophilic adsorption and size exclusion chromatography
Format:	Lyophilized from 2x PBS, 0.09% sodium azide, PEG, sucrose; reconstitute with 1 mL of water for 15 min at RT
Storage: <i>Shipping conditions may differ from the recommended storage temperature</i>	Store at -20°C; store at -80°C after reconstitution (aliquot to avoid repeated freeze/thaw cycles)
Immunogen:	KLH modified with Nitrotyrosine
Related Products:	
915-048	Phosphotyrosine Monoclonal Antibody
KAM-TK150	Phosphotyrosine Monoclonal Antibody
KAP-TK155	Phosphotyrosine Polyclonal Antibody

Background:

The enzymatic conversion of arginine to citrulline by nitric oxide synthase (NO Synthase) leads to the formation of nitric oxide (NO). NO forms peroxynitrite following the reaction with superoxide. Peroxynitrite is a potent oxidant that reacts with a variety of biological molecules, including tyrosine residues in proteins. Tyrosine nitration can inactivate enzymes and receptors that depend on tyrosine residues for their activity. Nitration prevents phosphorylation of tyrosine residues important for signal transduction.

67 kDa -



Western blot Analysis of Nitrotyrosine-modified BSA probed with Nitrotyrosine Monoclonal Antibody (7A5) at 1 µg/mL