

Product datasheet for **AM05341PU-N**

Nitrotyrosine Mouse Monoclonal Antibody [Clone ID: 2A12]

Product data:

Product Type:	Primary Antibodies
Clone Name:	2A12
Applications:	IHC, WB
Recommended Dilution:	Western Blot: 1/1000. Immunohistochemistry on Frozen Sections.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	3-Nitrotyrosine-KLH
Specificity:	This antibody detects 3-Nitrotyrosine.
Formulation:	20 mM Sodium Phosphate, 150 mM Sodium Chloride, 50% Glycerol, 3mM Sodium Azide, pH 7.5 State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	The antibody can be shipped at 2-8°C. Store (in aliquots) at -20°C only. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



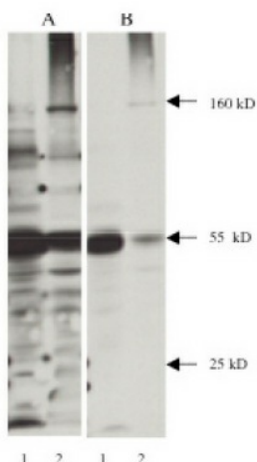
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Background:

Protein tyrosine nitration results in a post-translational modification that is increasingly receiving attention as an important component of nitric oxide signaling. While multiple nonenzymatic mechanisms are known to be capable of producing nitrated tyrosine residues, most tyrosine nitration events involve catalysis by metalloproteins such as myeloperoxidase, eosinophil peroxidase, myoglobin, the cytochrome P-450s, superoxide dismutase and prostacyclin synthase. Various studies have shown that protein tyrosine nitration is limited to specific proteins and that the process is selective. For example, exposure of human surfactant protein A (SP-A) to oxygen-nitrogen intermediates generated by activated alveolar macrophages resulted in specific nitration of SP-A at tyrosines 164 and 166, while addition of 1.2 mM CO₂ resulted in additional nitration at tyrosine 161. The presence of nitrotyrosine-containing proteins has shown high correlation to disease states such as atherosclerosis, Alzheimer's disease, Parkinson's disease and amyotrophic lateral sclerosis. 55 kD 160 kD.

Synonyms:

NO-Tyrosine, Nitro-Tyrosine

Product images:


Legend A. Western blot using 3-nitrotyrosine monoclonal antibody on 40 g mouse brain lysate (Lane 1) and 40 g rat brain lysate (Lane 2). Antibody used at a dilution of 1g/ml, detected with Supersignal West Pico Substrate -30 second exposure. Legend B. Same