

Mouse anti-Ubiquitous 3-Nitrotyrosine Monoclonal Antibody

3-Nitrotyrosine

CATALOG # AAA60491	HOST Mouse	REACTIVITY Ubiquitous	APPLICATIONS Western Blot
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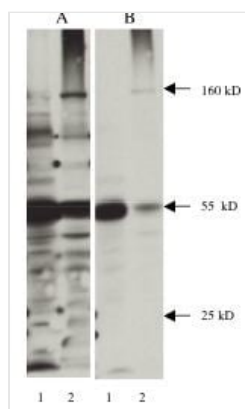
PRODUCT SYNONYMS

3-Nitrotyrosine; Monoclonal Antibody; anti-3-Nitrotyrosine antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Ubiquitous
Clonality	Monoclonal
Isotype	IgG1
Clone Number	2A12
Specificity	Nitrotyrosine
Form/Format	20 mM sodium phosphate, 150 mM sodium chloride, 50% glycerol, 3mM sodium azide, pH 7.5
Applicable Applications for anti-3-Nitrotyrosine antibody	WB (Western Blot)
Immunogen	3-Nitrotyrosine-KLH
Source	Mouse monoclonal antibody 2A12, obtained after immunization of mice with 3-Nitrotyrosine-KLH
Preparation and Storage	Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

IMAGES



WB (Western Blot)

A. Western blot using anti 3-nitrotyrosine monoclonal antibody on 40 ug mouse brain lysate (Lane 1) and 40 ug rat brain lysate (Lane 2). Antibody used at a dilution of 1ug/ml, detected with Supersignal West Pico Substrate-30 second exposure. B. Same experiment blocked with buffer containing 1 mM 3-nitrosine."

ADDITIONAL INFORMATION

Related Product Information for anti-3-Nitrotyrosine antibody	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, eosinophilperoxidase, myoglobin, the cytochrome P-450s, superoxide dismutase and prostacyclin synthase. Various studies have shown that protein tyrosinenitration 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 mMCO 2 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.
Product Categories/Family for anti-3-Nitrotyrosine antibody	Monoclonal Antibody; Phosphotyrosine

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/3-nitrotyrosine-antibody-clone-2a12-western-blot-elisa/60491>