

## Product datasheet for **AM03159PU-N**

### Nitrotyrosine Mouse Monoclonal Antibody [Clone ID: 39B6]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	39B6
Applications:	ELISA, IHC, IP, WB
Recommended Dilution:	ELISA (1,6). Immunoprecipitation. Immunofluorescence. Western blot (1): 0.7 µg/ml was sufficient for detection of 5 µg SN-1 treated BSA using Goat anti-Mouse IgG-HRP as the secondary antibody. Immunohistochemistry on Frozen Sections (1,5).
Reactivity:	Canine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	3-(4-Hydroxy-3-Nitrophenyl Acetamido) Propionic Acid-BSA conjugate
Specificity:	Recognizes 3-Nitrotyrosine moieties. No detectable cross-reactivity with non-Nitrated Tyrosine. Not species specific.
Formulation:	PBS containing 0.09% Sodium Azide as preservative in 50% Glycerol. State: Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. 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 (2). 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 (3), myoglobin, the cytochrome P-450s, superoxide dismutase and prostacyclin synthase.

Nitrotyrosine may also serve as a biomarker for the effects of reactive nitrogen oxides, based on tyrosine residues becoming nitrated in proteins at sites of inflammation induced tissue injury (1). The presence of nitro tyrosine-containing proteins therefore has shown high correlation to disease states such as atherosclerosis, Alzheimer's disease, Parkinson's disease and amyotrophic lateral sclerosis (4).

**Synonyms:**

NO-Tyrosine, Nitro-Tyrosine