

Nitrotyrosine monoclonal antibody monoclonal antibody

Cat. no. A21997

Components:	100 µg monoclonal antibody
Lot no.:	See product label
Clone/PAD:	7A12AF6
Isotype:	Mouse IgG2b
Gene ID:	N/A
Gene Symbol:	N/A
Concentration:	1 mg/mL in Hepes-Buffered Saline (HBS) with 0.02% sodium azide as a preservative
mAb PURITY:	Near homogeneity as judged by SDS-PAGE. The antibody was produced <i>in vitro</i> using hybridomas grown in serum-free medium, and then purified by biochemical fractionation.
Reactivity:	Human, rat, mouse, bovine
Immunogen:	Nitrated KLH (Keyhole Limpet Hemocyanin)
Validated Applications:	Western blotting, Immunoprecipitation, Immunocytochemistry, In-Cell ELISA
Suggested Working Concentration:	1 µg/mL (This is a starting working concentration. The optimal antibody concentration should be determined empirically for each specific application.)
Storage:	Store at 2–8°C. Do not freeze.
Expiration Date:	See product label.

Target Background:

Nitrotyrosine is formed on protein tyrosine residues by peroxynitrite-induced nitration and it is considered a sensitive marker for oxidative stress. Nitrotyrosine can be found in tissue in free and protein-bound forms. Antibody MS703 was developed to recognize only protein-bound nitrotyrosine and it is a sensitive tool for measuring protein-specific modifications from oxidative stress.



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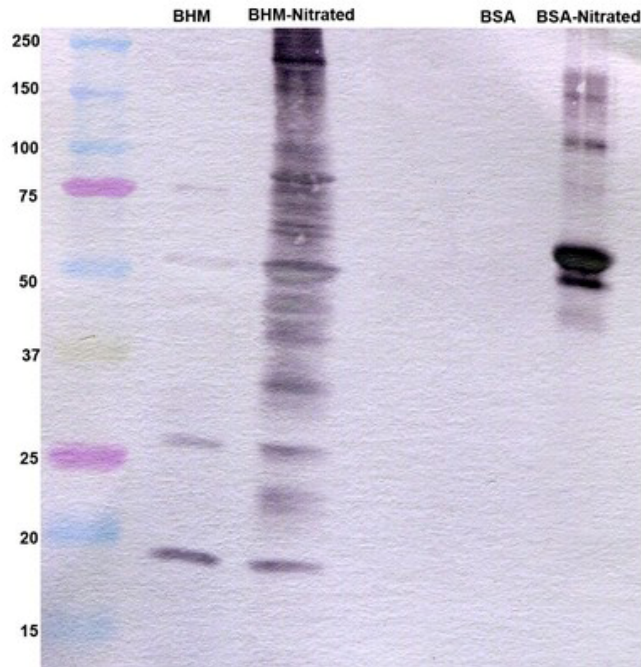
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Western Blot image of Nitrotyrosine monoclonal antibody. Samples were separated by SDS-PAGE (gradient gel, 10–20%). The bands were transferred to a PVDF membrane and incubated with the primary antibody at the recommended working concentration. AP-conjugated GAM secondary antibodies were used at a 1:3,000 dilution for detection and the signal was developed with AP development kit.

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