

Mouse Monoclonal Antibody to

Nitrotyrosine

clone 7A5

Order No.: 0048-100/NOY-7A5

Size (µg) 100

Lot No.: 0048S

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02/060307F

| Isotype | Species Reactivity | Applications | Mol. Weight | Ref.Cell Line | Epitope | Immunogen |
|---------|------------------------|--------------|-------------|---------------|---------|---------------------------------|
| IgG1 | human, mouse, rat, dog | WB, ELISA | pattern | | | KLH modified with Nitrotyrosine |

Background and Specificity:

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.

Mab NOY-7A5 recognizes Nitrotyrosine in proteins and can be used for Western blot and ELISA applications.

Related Products

BSA-Nitrotyrosine

#0068-2000/NOY-BSA

Purification: The antibody was purified from serum-free cell culture supernatant by subsequent thiophilic adsorption and size exclusion chromatography.

Formulation: lyophilized from 1 ml 2 x PBS / 0.09 % Na-azide / PEG and Sucrose.

Reconstitution: Reconstitute with 1 ml H₂O (15 min, RT).

Stability: For long-term storage, freeze lyophilizate upon arrival (-20°C). Upon reconstitution, aliquote and freeze in liquid nitrogen; reconstituted antibody can be stored frozen at -80°C up to 1 year. Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

Avoid repeated freeze / thaw cycles.

Positive Control: none

Immunoblotting: 0.5 µg/ml for HRPO/ECL detection
Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer, e.g. nanoTools product #3031-500/CPPT or #3031-3000/CPPT.

Immunoprecipitation: ND

Immunocytochemistry: ND

ELISA: use at 0.05 µg/ml

67 kDa -



Immunoblot Analysis

Nitrotyrosine-modified BSA (NOY-BSA) probed with mab NOY-7A5 at 1 µg/ml.

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