

## Monoclonal Antibody to Nitrotyrosine - Purified

**Alternate names:** NO-Tyrosine, Nitro-Tyrosine

**Catalog No.:** AM00099PU-N

**Quantity:** 0.1 mg

**Background:** 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.

**Host / Isotype:** Mouse / IgG1

**Clone:** 7A5

**Immunogen:** KLH modified with Nitrotyrosine

**Format:** **State:** Lyophilized purified IgG fraction

**Purification:** Subsequent Ultrafiltration and Size Exclusion Chromatography

**Buffer System:** 1ml 2 x PBS

**Preservatives:** 0.09% Sodium Azide

**Stabilizers:** PEG and Sucrose

**Reconstitution:** Restore with 1ml H<sub>2</sub>O (15 min, RT)

**Applications:** **Immunoblotting:** 0.5 µg/ml for HRPO/ECL detection.

*Recommended blocking buffer:* Casein/Tween 20 based blocking and blot incubation buffer.

**ELISA:** 0.05 µg/ml.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:** This antibody 7A5 recognizes Nitrotyrosine in proteins.

**Species:** Human, Mouse, Rat, Canine (Dog).

Other species not tested.

**Storage:** Store lyophilized (preferably in a desiccator) at -20°C and reconstituted (aliquote and freeze in liquid nitrogen) at -80°C.

Avoid repeated freezing and thawing.

Thaw aliquots at 37°C. Thawed aliquots may be stored at 4°C up to 3 months.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**For research and in vitro use only. Not for diagnostic or therapeutic work.**

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - [www.acris-antibodies.com](http://www.acris-antibodies.com)

**Pictures:**

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

