

Product Specification Sheet

Nitrated-BSA or Ovalbumin Protein control

Cat # NITT15-N	Nitrated-BSA protein Control	SIZE: 100 ug
Cat # NITT16-N	Nitrated-Ovalbumin protein Control	SIZE: 100 ug

Nitric oxide (NO) and reactive oxygen species (ROS) are important mediators to produce harmful or protective functions. NO can react with superoxide anions (O₂⁻), yielding the toxic oxidizing agent peroxynitrite (ONOO⁻). Peroxynitrite induces nitration of tyrosine residues leading to changes of protein structure and function, and alterations in signaling pathways. Antibodies to nitrotyrosine have been used to monitor the status of peroxynitrite-induced modification of proteins.

Source of Antigen and Antibodies

Nitrated BSA or chicken egg ovalbumin is prepared by chemical modification of proteins by peroxynitrite. Nitrated-BSA (**cat # NITT15-N**) or Nitrated ovalbumin (**Cat #NITT16-N**) is supplied as solution (100 ug/100 ul in PBS, pH 7.4) or in powder without any preservative. Reconstitute powder with water to prepare appropriate stock solution.

Lyophilized products should be reconstituted in 100 ul water and gently mixed for 15 min at room temp. All peptide/antibody received in solution or reconstituted from lyophilized vials should be stored frozen at -20°C or below in suitable aliquots. It is not recommended to store diluted solutions. Avoid repeated freeze and thaw.

Recommended Usage

Load approx. 1-5 ug protein for **Western** and coat 1-10 ug/ml for **ELISA**. An initial testing of antibodies (cat# NITT11-M, NITT12-A, NITT13-S) is recommended at 1-5 ug/ml for Western. Users must optimize antibody dilution depending upon the nature of samples and other technical conditions.

General References: (1) Viera L. (1999) Methods Enzymol, 301:373-381; Beckman et al (1993) Nature 364, 584; Haddad et al (1994) J Clin. Invest. 94, 2407, Ayata et al (1997) J Neurosci. 17, 6908

ADI's NITT antibodies have been cite in the following (see web site for any updates)

Penkowa M et al 2001 Neuroscience, Volume 102, Issue 4, 14 February 2001, Pages 805-818, **IHC**.
Carrasco, Javier 2000 European Journal of Neuroscience Volume 12, Issue 7, Page 2311, **IHC**.
Penkowaa, Milena 2001 J Neuroimmunol 119, 248-260 (**IHC**).

*This product is for In vitro research use only.

NITT15-16-N 71214A

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