

Product datasheet

Anti-Nitro tyrosine antibody ab42789

★★★★☆ 2 Abreviews 6 References 2 Images

Overview

Product name	Anti-Nitro tyrosine antibody
Description	Rabbit polyclonal to Nitro tyrosine
Host species	Rabbit
Specificity	This antibody reacts with free and bound nitrotyrosine. There is no cross reaction with free or bound tyrosine
Tested applications	Suitable for: IHC-FoFr, IHC-P, WB, ELISA
Species reactivity	not applicable
Immunogen	Chemical/ Small Molecule conjugated to KLH: Nitrotyrosine

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: none.
Purity	Whole antiserum
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab42789** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-FoFr		Use at an assay dependent concentration. PubMed: 22540017
IHC-P		Use at an assay dependent concentration. PubMed: 24551153
WB	★★★★☆	1/200 - 1/2000. Predicted molecular weight: 1 kDa.

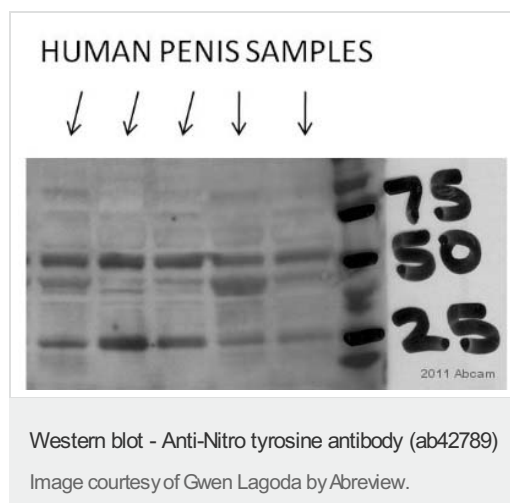
Application	Abreviews	Notes
ELISA		1/5000 - 1/20000.

Target

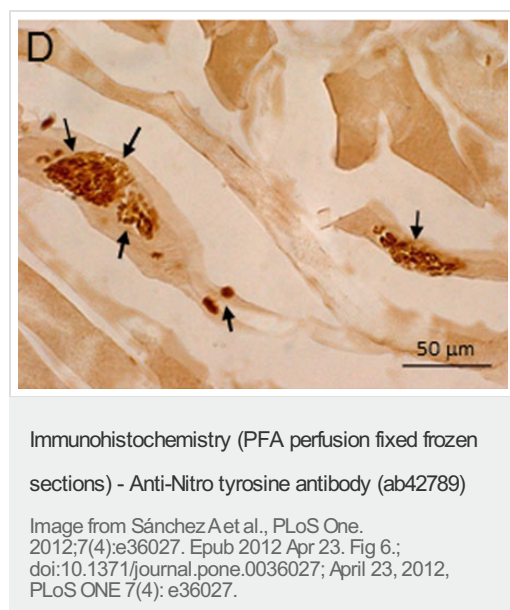
Relevance

Nitric oxide (NO) is a product of the enzymatic conversion of arginine to citrulline by nitric oxide synthase. NO reacts rapidly with superoxide to form peroxynitrite. At physiological pH and in the presence of transition metals, peroxynitrite undergoes heterolytic cleavage to form hydroxyl anion and nitronium ion, the latter of which nitrates protein tyrosine residues. Thus, the presence of nitrotyrosine on proteins can be used as a marker for peroxynitrite formation in vivo. The presence of nitrotyrosine has been detected in various inflammatory processes including atherosclerotic plaques.

Images



All lanes: Whole cell lysate prepared from human penile tissue loaded at 30µg. Gel is 4-15% mini gel, performed under reduced, denaturing conditions.
ab42789 added at a 1/1000 dilution.
Secondary used was a donkey anti-rabbit IgG conjugated to HRP, used at a 1/7000 dilution.



Immunohistochemical analysis of prediabetic obese rat penile tissue, staining Nitro tyrosine with [ab72789](#).

Samples were blocked with 10% normal goat serum, permeabilized with 0.3% Triton X-100 before being incubated with primary antibody (1/100) for 48 hours at 4°C. A biotinylated goat anti-rabbit IgG (1/400) was used as the secondary antibody and staining was detected using DAB.

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