

U-Blot[®] Pan-3-Nitrotyrosine Rabbit pAb (WT9024)

User Manual

General Information

Product name	U-Blot [®] Pan-3-Nitrotyrosine Rabbit pAb
Product No.	WT9024
Clonality	Polyclonal
Alternative name	3NT

Key Features

Target	3-Nitrotyrosine
Reactivity	Species Independent
Applications	WB, IHC-P, ICC/IF, FC
MW(Calculated)	Multiple
MW(Observed)	Multiple
Host Species	Rabbit
Isotype	IgG
Conjugate	Unconjugated
Modification	Nitration
Modification Site	Tyr (Y)
Purification	Protein A
Immunogen	Polypeptide

Storage Information

Storage	Store at -20°C. Avoid repeated freeze-thaw cycles
Stability	Stable for 12 months from date of receipt / reconstitution
Formulation	0.01% NaN ₃ , PBS, 60% Glycerol, BSA

Product Usage Information

Applications	Dilution	Recommended Species
WB	1:1000	All
IHC-P	1:100-1:200	Human, Mouse
ICC/IF	1:100-1:200	Human
FC	1:100-1:200	Human

Target Information

Alternative name 3NT

3-Nitrotyrosine is a widely recognized oxidative post-translational modification formed by the nitration of tyrosine residues induced by reactive nitrogen species (RNS), such as peroxynitrite. As a stable and specific biomarker, 3-nitrotyrosine is closely associated with oxidative stress, inflammation, mitochondrial dysfunction, and various pathological processes including cardiovascular diseases, neurodegenerative disorders, and cancer.

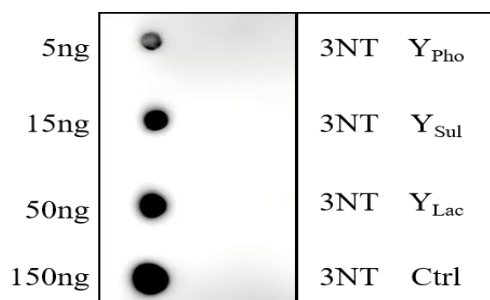
Background

Detection of endogenous 3-nitrotyrosine-modified proteins is critical for evaluating nitrosative stress levels and investigating the molecular mechanisms underlying disease progression. Highly specific antibodies against 3-nitrotyrosine enable reliable identification and quantification of protein nitration in Western blotting, immunohistochemistry, immunofluorescence, and other immunoassays.

Cellular Localization /

Images

Dot Blot



Note: The 3NTpeptide was diluted in gradients of 5 ng, 15 ng, 50 ng, and 150 ng. All other peptides were used at a dilution amount of 150 ng.

Blocking buffer: 5% NFDM/TBST

Primary antibody dilution: 1:2000

Primary antibody incubation condition: 2 hour at room temperature

Secondary antibody: Goat Anti-Rabbit IgG H&L (HRP)

Exposure time: 90 seconds

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