

# Product Datasheet

## Nitrotryptophan Antibody (2D12)

### NBP2-59354

Unit Size: 100 ug

Store at -20C.

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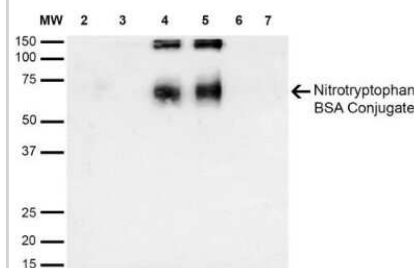
**NBP2-59354****Nitrotryptophan Antibody (2D12)**

<b>Product Information</b>	
<b>Unit Size</b>	100 ug
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at -20C.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	2D12
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS (pH 7.4), 50% Glycerol
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Species</b>	Non-species specific
<b>Specificity/Sensitivity</b>	Specific for 6-Nitrotryptophan modified proteins. Does not cross-react with 7-Ketocholesterol modified proteins.
<b>Immunogen</b>	Synthetic 6-Nitrotryptophan modified Keyhole Limpet Hemocyanin (KLH).
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 1:1000, Flow Cytometry 1:50, ELISA 1:1000, Immunocytochemistry/ Immunofluorescence 1:50

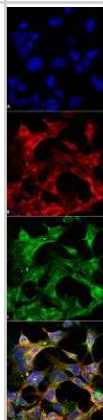


## Images

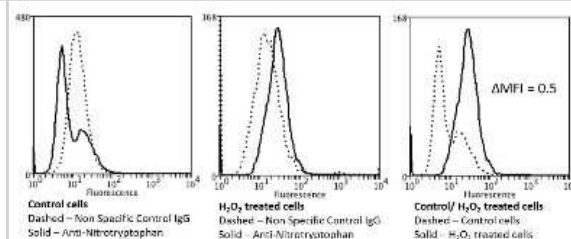
**Western Blot: Nitrotryptophan Antibody (2D12) [NBP2-59354]** - Western Blot analysis of 6-Nitrotryptophan-BSA Conjugate showing detection of 67 kDa Nitrotryptophan protein using Mouse Anti-Nitrotryptophan Monoclonal Antibody, Clone 2D12 (NBP2-59354). Lane 1: Molecular Weight Ladder (MW). Lane 2: BSA (0.5 ug). Lane 3: BSA (1 ug). Lane 4: 6-Nitrotryptophan-BSA (0.5 ug). Lane 5: 6-Nitrotryptophan-BSA (1 ug). Lane 6: 7-Ketocholesterol-BSA (0.5 ug). Lane 7: 7-Ketocholesterol-BSA (1 ug). Block: 5% Skim Milk in TBST. Primary Antibody: Mouse Anti-Nitrotryptophan Monoclonal Antibody (NBP2-59354) at 1:1000 for 2 hours at RT. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:2000 for 60 min at RT. Color Development: Luminol for 1 min. Predicted/Observed Size: 67 kDa.



**Immunocytochemistry/Immunofluorescence: Nitrotryptophan Antibody (2D12) [NBP2-59354]** - Embryonic kidney cells (HEK293) treated with 50 uM hydrogen peroxide for 24 hours. Species: Human. Fixation: 5% Formaldehyde for 5 min. Primary Antibody: Mouse Anti-Nitrotryptophan Monoclonal Antibody at 1:50 for 30-60 min at RT. Secondary Antibody: Goat Anti-Mouse Alexa Fluor 488 at 1:1500 for 30-60 min at RT. Counterstain: Phalloidin Alexa Fluor 633 F-Actin stain; DAPI (blue) nuclear stain at 1:250, 1:50000 for 30-60 min at RT. Localization: Cytoplasmic. Magnification: 20X (2X Zoom). (B) DAPI (blue) nuclear stain. (B) Phalloidin Alex Fluor 633 F-Actin stain. (C) Nitrotryptophan Antibody. (D) Composite. Courtesy of: Dr. Robert Burke, University of Victoria.



**Flow Cytometry: Nitrotryptophan Antibody (2D12) [NBP2-59354]** - Flow Cytometry analysis using Mouse Anti-Nitrotryptophan Monoclonal Antibody, Clone 2D12 (NBP2-59354). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 90% Methanol. Primary Antibody: Mouse Anti-Nitrotryptophan Monoclonal Antibody (NBP2-59354) at 1:50 for 30 min on ice. Secondary Antibody: Goat Anti-Mouse: PE at 1:100 for 20 min at RT. Isotype Control: Non Specific IgG. Cells were subject to oxidative stress by treating with 250 M H<sub>2</sub>O<sub>2</sub> for 24 hours.





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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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