

Product Datasheet

3-OHKYN Antibody (P3UI) - BSA Free NB100-597

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NB100-597

3-OHKYN Antibody (P3UI) - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	2.6 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	P3UI
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	Tris-Glycine and 0.15M NaCl
Target Molecular Weight	66 kDa

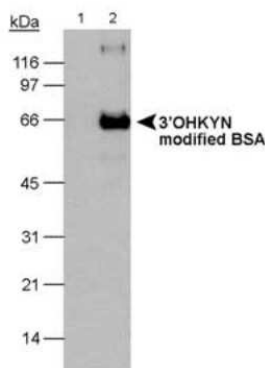
Product Description	
Host	Mouse
Species	Human, All Species
Specificity/Sensitivity	This is specific for 3-hydroxykynurenine (3OH-Kyn) modifications on proteins. It is likely to react with 3OH-Kyn modification on lysine, histidine and cysteine residues on proteins. It does not react with enzymes involved in the degradation of tryptophan
Immunogen	3-OHKYN modified KLH

Product Application Details	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 2 ug/ml, ELISA reported in scientific literature, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:100-1:200, Immunohistochemistry-Paraffin reported in scientific literature

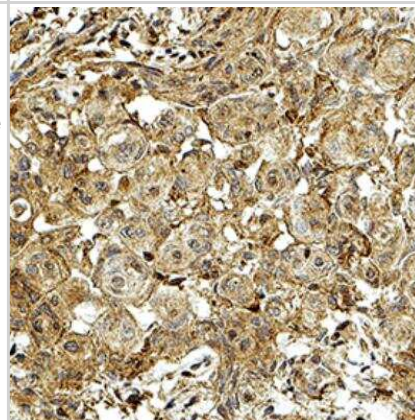


Images

Western Blot: 3-OHKYN Antibody (P3UI) [NB100-597] - Detection of 3'OHKYN in modified BSA using NB 100-597. 10 second ECL exposure. Lane 1: BSA (-) Lane 2: BSA (+).



Immunohistochemistry-Paraffin: 3-OHKYN Antibody (P3UI) [NB100-597] - 3-OHKYN was detected in immersion fixed paraffin-embedded sections of human brain using Mouse Anti-Human 3-OHKYN (P3UI) Monoclonal Antibody (Catalog # NB100-597) at 1:300 for 1 hour at room temperature followed by incubation with the Anti-Mouse IgG VisUCyte™ HRP Polymer Antibody (Catalog # VC001). Tissue was stained using DAB (brown) and counterstained with hematoxylin (blue). Specific staining was localized to the cytoplasm in neurons.



Publications

Deepak Prasad Gupta, Sung Hee Park, Hyun-Jeong Yang, Kyoungcho Suk, Gyun Jee Song Neuroprotective and Anti—Neuroinflammatory Effects of a Poisonous Plant Croton tiglium Linn. Extract Toxins 2020-04-17 [PMID: 32316571]

Staniszewska, MM, Nagaraj, RH. 3-hydroxykynurenine-mediated modification of human lens proteins: structure determination of a major modification using a monoclonal antibody. J Biol Chem. 280(23):22154-64. Epub 2005 Apr 6. 2005-06-10 [PMID: 15817458] (ELISA, WB, IHC-P, ICC/IF, Human)

Procedures

Western Blot protocol for 3-OHKYN Antibody (NB100-597)

3-OHKYN Antibody (P3UI):

Western Blot Protocol

1. Perform SDS-PAGE (4-12%) on samples to be analyzed, loading 0.25 ug of total protein per lane (3'OHKYN modified BSA for this experiment).
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Stain the blot using ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% non-fat dry milk in TBS for 1 hour.
6. Dilute the mouse anti-3'OHKYN primary antibody (NB 100-597) in blocking buffer and incubate 2 hours at room temperature.
7. Wash the membrane in water for 5 minutes and apply the diluted mouse-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturer's instructions) and incubate 1 hour at room temperature.
8. Wash the blot in TBS containing 0.05-0.1% Tween-20 for 10-20 minutes.
9. Wash the blot in type I water for an additional 10-20 minutes (this step can be repeated as required to reduce background).
10. Apply the detection reagent of choice in accordance with the manufacturer's instructions (Amersham's ECL is the standard reagent used at Novus Biologicals).

Note: Tween-20 can be added to the blocking buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.





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Products Related to NB100-597

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NB100-597B	3-OHKYN Antibody (P3UI) [Biotin]

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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