

Product Datasheet

Thymine Dimer Antibody (H3) - BSA Free NB600-1141

Unit Size: 0.025 ml

Store at -20C. Avoid freeze-thaw cycles.

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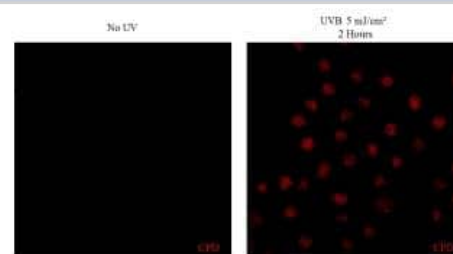
NB600-1141**Thymine Dimer Antibody (H3) - BSA Free**

Product Information	
Unit Size	0.025 ml
Concentration	2.0 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	H3
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein A or G purified
Buffer	10mM PBS (pH 7.4)
Product Description	
Description	Novus Biologicals Mouse Thymine Dimer Antibody (H3) - BSA Free (NB600-1141) is a monoclonal antibody validated for use in IHC, ELISA and ICC/IF. Anti-Thymine Dimer Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Species	Human, Non-species specific, Chicken
Specificity/Sensitivity	Monoclonal Anti-Thymine Dimer reacts specifically with the (5'-6') cyclobutane type of homothymine or thyminecytosine heterodimers. The antibody reacts with thymine dimers in single-stranded DNA, and has a lower affinity for the dimer in short oligonucleotides (a tail of minimum 10-20 thymine residues is required for efficient labeling of oligonucleotide probes). The product enables a sensitive and non-radioactive method for labeling, detection, and quantification of DNA fragments using ELISA, competitive ELISA, immunocytochemistry (laser-scan microscopy) and Southern immunoblotting.
Immunogen	tetra nucleotide containing cyclobutane thymine dimer (GTTG) conjugated to chicken gamma globulin.
Product Application Details	
Applications	Dot Blot, ELISA, Immunocytochemistry/ Immunofluorescence
Recommended Dilutions	ELISA 1:100-1:2000, Immunocytochemistry/ Immunofluorescence 1:10-1:2000, Dot Blot 0.5-1 ug/ml
Application Notes	Southern Blotting, use UV induced thymine dimers of lamda phage DNA fragments



Images

Immunocytochemistry/Immunofluorescence: Thymine Dimer Antibody (H3) [NB600-1141] - analysis of Thymine Dimer in human keratinocytes using anti-Thymine Dimer antibody. Image from verified customer review.



Publications

Wong W, Kim A, Monaghan JR et al. Spiny mice (Acomys) exhibit attenuated hallmarks of aging and rapid cell turnover after UV exposure in the skin epidermis PLOS ONE 2020-10-30 [PMID: 33125436] (Immunocytochemistry/Immunofluorescence)

Ong Q, Wee W, Dela Cruz J et al. 222-Nanometer Far-UVC Exposure Results in DNA Damage and Transcriptional Changes to Mammalian Cells International journal of molecular sciences 2022-08-14 [PMID: 36012379] (ICC/IF, Human)

Wong W, Crane ED, Zhang H et al. Pgc-1 alpha controls epidermal stem cell fate and skin repair by sustaining NAD⁺ homeostasis during aging Molecular metabolism 2022-08-17 [PMID: 35987498] (IHC-P, Mouse)

Details:

Staining done on mouse skin samples, Dilution used 1:400

Patil G Role of Pkc Delta in Uv Radiation Dna Damage Repair Thesis 2016-01-01 (ICC/IF, Human)



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Products Related to NB600-1141

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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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