Product Datasheet

DAPI Solution
NBP2-31156-1mg

Unit Size: 1 mg

Store at -20C in the dark. Avoid freeze-thaw cycles.

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Reviews: 1 Publications: 26

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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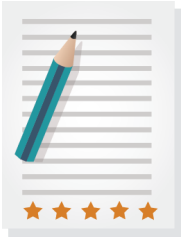
Updated 10/23/2024 v.20.1



NBP2-31156-1mg

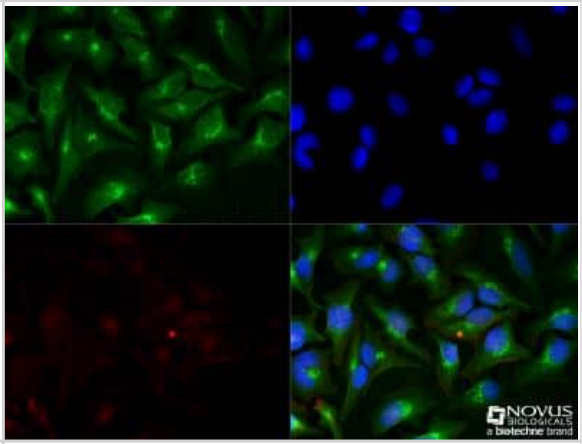
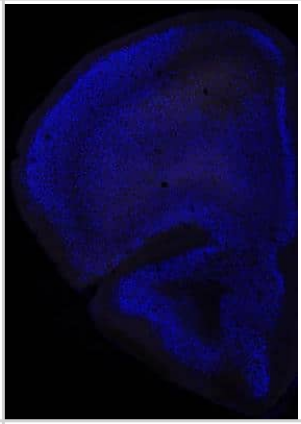
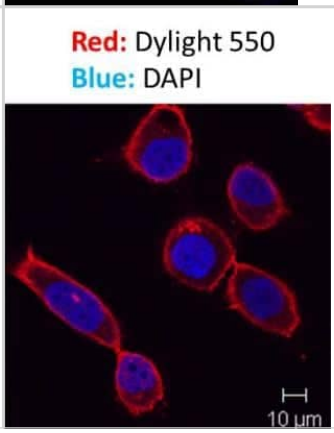
DAPI Solution

Product Information	
Unit Size	1 mg
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at -20C in the dark. Avoid freeze-thaw cycles.
Preservative	No Preservative
Buffer	Water

Product Description	
Description	DAPI is excluded by viable cells but can penetrate cell membranes of dying or dead cells, in which it intercalates into double stranded nucleic acids. Dead cells which take up DAPI will fluoresce brightly around 461nm. DAPI may be excited by the UV or violet lasers although the UV laser is much more efficient. DAPI's emission spectra is very similar to the Pacific Blue (TM) dye. Supplied at a concentration of 1 mg/ml.
Species	Human
Reactivity Notes	Use in Human reported in scientific literature (PMID:33296752)

Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunohistochemistry Free-Floating, Immunohistochemistry Whole-Mount
Recommended Dilutions	Flow Cytometry, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 0.1-1.0ug/ml, Immunohistochemistry-Paraffin, Immunohistochemistry-Frozen, Immunohistochemistry Free-Floating, Immunohistochemistry Whole-Mount

Images

Immunocytochemistry/Immunofluorescence: DAPI Solution [NBP2-31156] - Staining image showing the use of DAPI solution (Blue) [NBP2-31156] as a counterstaining agent in ICC/IF analysis of 58K Golgi Protein and alpha tubulin in Hela cell line. Cells, cultured on cover slips, were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton-X100. The cells were incubated with 1:200 dilution of anti-58K Golgi Protein antibody clone 58K-9 for overnight at 4C and detected with an anti-rabbit Dylight 488 (Green) secondary at a 1:500 dilution. Alpha tubulin (DM1A) [NB100-690] was used as a co-stain at a 1:1000 dilution and detected with an anti-mouse Dylight 550 (Red) at a 1:500 dilution. Nuclei were counterstained with DAPI solution (Blue) and the cells were then imaged using a 40X objective.	
Immunohistochemistry: DAPI Solution [NBP2-31156] - DAPI labelling in mouse brain. Image from verified customer review.	
Immunocytochemistry/Immunofluorescence: DAPI Solution [NBP2-31156] - ICC analysis of LM7 cells using anti-IgM antibody [DyLight 550] (Cat.# NBP2-34422R). (blue) was used as a nuclear counterstain. Image from verified customer review.	

Publications

Chousal, JN;Morey, R;Srinivasan, S;Lee, K;Zhang, W;Yeo, AL;To, C;Cho, K;Garzo, VG;Parast, MM;Laurent, LC;Cook-Andersen, H; Molecular profiling of human blastocysts reveals primitive endoderm defects among embryos of decreased implantation potential Cell reports 2024-01-25 [PMID: 38277271]

Ely Cheikh Boussaty, Yuzuru Ninoyu, Leonardo R. Andrade, Qingzhong Li, Ryu Takeya, Hideki Sumimoto, Takahiro Ohyama, Karl J. Wahlin, Uri Manor, Rick A. Friedman, Karen P. Steel Altered Fhod3 expression involved in progressive high-frequency hearing loss via dysregulation of actin polymerization stoichiometry in the cuticular plate PLOS Genetics 2024-03-18 [PMID: 38498576]

Saranya M, da Silva AM, Karjalainen H et al. Magnetic-Responsive Carbon Nanotubes Composite Scaffolds for Chondrogenic Tissue Engineering Advanced healthcare materials 2023-09-02 [PMID: 37660271] (IHC)

Shin JH, Moreno-Nieves UY, Zhang LH et al. AHR Regulates NK Cell Migration via ASB2-Mediated Ubiquitination of Filamin A Frontiers in Immunology 2021-02-24 [PMID: 33717133] (Flow Cytometry)

Boussaty E, Ninoyu Y, Andrade L et al. Altered Fhod3 Expression Involved in Progressive High-Frequency Hearing Loss via Dysregulation of Actin Polymerization Stoichiometry in The Cuticular Plate bioRxiv 2023-07-25 [PMID: 37546952]

Conroy LR, Clarke HA, Allison DB et al. Spatial metabolomics reveals glycogen as an actionable target for pulmonary fibrosis Nature communications 2023-05-13 [PMID: 37179348] (IHC-P)

Berard AR, Brubaker DK, Birse K et al. Vaginal epithelial dysfunction is mediated by the microbiome, metabolome, and mTOR signaling Cell reports 2023-05-05 [PMID: 37149863] (ICC/IF)

Chousal J, Srinivasan S, Lee K et al. Molecular signatures associated with successful implantation of the human blastocyst bioRxiv 2023-05-10 (Immunocytochemistry/ Immunofluorescence)

Details:
Dilution: 1:500

Juras J, Webb M, Young L et al. In situ microwave fixation provides an instantaneous snapshot of the brain metabolome Cell Reports Methods 2023-04-01 [PMID: 37159672] (IHC-FrFl, Mouse)

Ruckriegl S, Loris J, Wert K et al. Knockdown of G Protein-coupled Estrogen Receptor 1 (GPER1) Enhances Tumor-supportive Properties in Cervical Carcinoma Cells Cancer genomics & proteomics 2023-04-24 [PMID: 37093686] (ICC/IF, Human)

Details:
Dilutions: 1:1000

Buse J Einfluss einer ERK1/2-Resistenz auf Zellwachstum und Invasivit□t von triple-negativen Mammakarzinomzellen Thesis 2023-01-27

Atzori MG, Ceci C, Ruffini F Et al. The Anti-Vascular Endothelial Growth Factor Receptor 1 (VEGFR-1) D16F7 Monoclonal Antibody Inhibits Melanoma Adhesion to Soluble VEGFR-1 and Tissue Invasion in Response to Placenta Growth Factor Cancers (Basel) 2022-11-26 [PMID: 36428669] (IHC-P)

Details:
Citation using the HRP version of this antibody.

More publications at http://www.novusbio.com/NBP2-31156

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