Product Datasheet

DRAQ7 (TM)
NBP2-81126-1000ul

Unit Size: 1000 ul

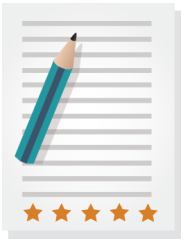
Store at 4C in the dark. Do not freeze.

www.novusbio.com technical@novusbio.com

Reviews: 1 Publications: 1

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP2-81126

Updated 4/12/2020 v.20.1



NBP2-81126-1000ul

DRAQ7 (TM)

Product Information

Unit Size	1000 ul
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at 4C in the dark. Do not freeze.
Purity	>97%

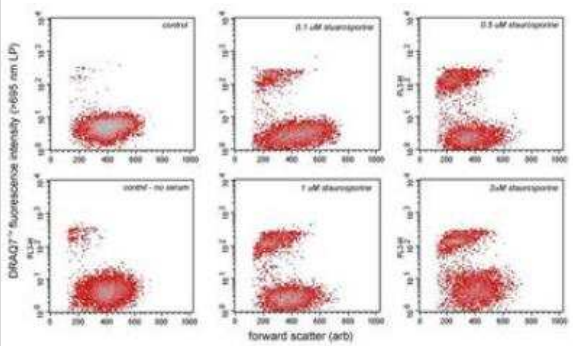
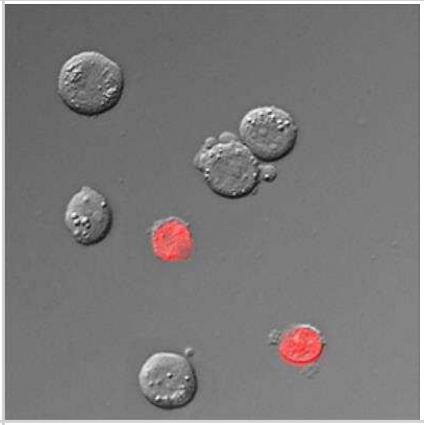
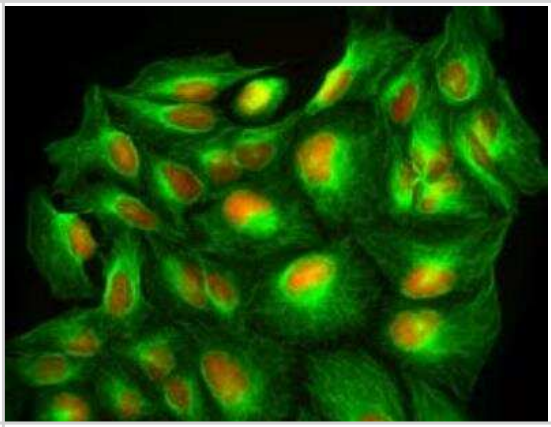
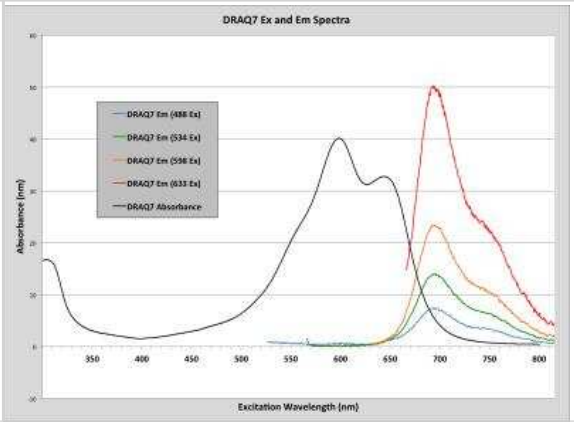
Product Description

Description	**Key Features of DRAQ7 (TM)** : Far-red viability dye used for investigating dead or membrane compromised cells, notably for dead cell exclusion in flow cytometry, single-cell RNAseq and GWAS Does not enter intact, live cells and acts as an ideal replacement for propidium iodide (PI) and 7-AAD Serves as a component of apoptosis assays, for any fluorescence-based cell analysis platform, and in cell health / in vitro toxicity assays Rapid staining and easy to use, without the need for a wash step Non-toxic and optimal for long-term imaging studies, up to several days Minimal photobleaching Spectrally compatible with GFP and FITC labels.
Notes	DRAQ7 (TM) is supplied as a blue aqueous solution and shipped at ambient temperature, but on receipt packs should be stored at 2-8C. DO NOT FREEZE.

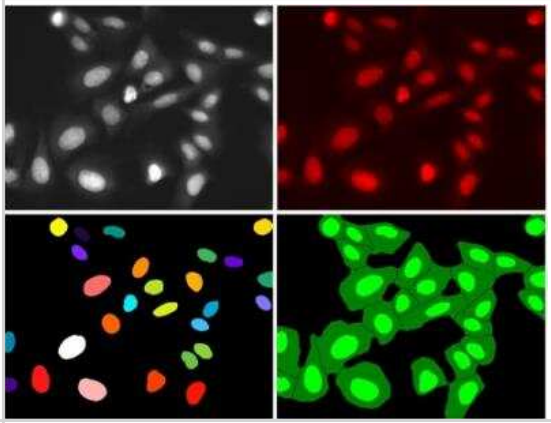
Product Application Details

Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Live Imaging Microscopy, Fluorescence Imaging
Recommended Dilutions	Flow Cytometry 1:100, Immunocytochemistry/ Immunofluorescence 1:60, Live Imaging Microscopy 1:100, Fluorescence Imaging 1:60 - 1:100
Application Notes	DRAQ7 (TM) is supplied at a concentration of 0.3mM: the 250 ul size allows for 50 Flow Cytometry assays and 250 Cell Health assays whereas the 1ml size allows for 200 Flow Cytometry assays and 1,000 Cell Health assays. DRAQ7 (TM) can be diluted in culture media (e.g. RPMI 1640) and physiological buffers (eg PBS, Hankss, etc.) and mixed with fixatives such as formaldehyde. DRAQ7 (TM) has many applications in imaging, cytometry and screening and is highly compatible with existing protocols across a wide range of instrumentation platforms.

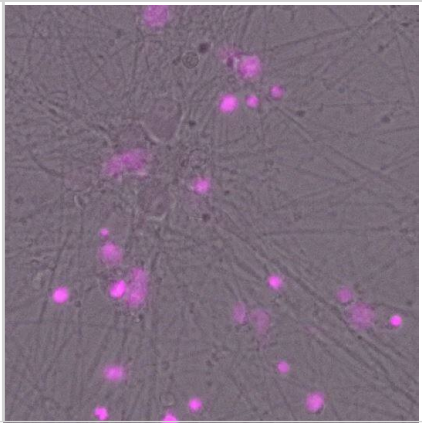
Images

Flow Cytometry: DRAQ7 (TM) [NBP2-81126] - Lymphoma cells treated with increasing quantities of staurosporine (STS). reports STS-induced apoptosis and cell death in dose-dependent manner with clear separation of positive and negative events.	
Live Imaging Microscopy: DRAQ7 (TM) [NBP2-81126] - DRAQ7(TM) was added directly to unfixed THP-1 cells in RPMI + 20% FBS culture media at 3 uM (1:100) for 30 minutes at room temperature and protected from light. Imaging was done immediately after staining without washing the cells.	
Immunocytochemistry/Immunofluorescence: DRAQ7 (TM) [NBP2-81126] - Formaldehyde-fixed U2OS cells labelled with (red, nuclei+D8 and AlexaFluor 488 antibody to beta-tubulin (green).	
DRAQ7 (TM) [NBP2-81126] - Spectral properties of DRAQ7 (TM) - spectral compatibility with UV-excited and most vis. Range fluorochromes for multi-colour analysis. Detection from blue excitation is achievable only by flow cytometry.	

Fluorescence Imaging: DRAQ7 (TM) [NBP2-81126] - montage.



DRAQ7 (TM) [NBP2-81126] - In vitro, Cortical neurons are used to assess the glutamate toxicity using DRAQ7 dye. Image from verified customer review.



Publications

Rao A, Chen N, Kim MJ et al. Microglia Depletion Reduces Human Neuronal APOE4-Driven Pathologies in a Chimeric Alzheimer's Disease Model bioRxiv : the preprint server for biology 2023-11-14 [PMID: 38014339]

Novus Biologicals USA
10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada
21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd
19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information
www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Limitations
This product is for research use only and is not approved for use in humans or in clinical diagnosis. Support products are guaranteed for 6 months from date of receipt.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP2-81126

Earn gift cards/discounts by submitting a publication using this product: www.novusbio.com/publications