

Product Datasheet

DRAQ7 (TM) **NBP2-81126-1000ul**

Unit Size: 1000 ul

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

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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	<p>Key Features of DRAQ7 (TM) :</p> <p>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</p> <p>Does not enter intact, live cells and acts as an ideal replacement for propidium iodide (PI) and 7-AAD</p> <p>Serves as a component of apoptosis assays, for any fluorescence-based cell analysis platform, and in cell health / in vitro toxicity assays</p> <p>Rapid staining and easy to use, without the need for a wash step</p> <p>Non-toxic and optimal for long-term imaging studies, up to several days</p> <p>Minimal photobleaching</p> <p>Spectrally compatible with GFP and FITC labels.</p> <p> 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.</p>
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Notes	DRAQ7 (TM) is a registered trademark of BioStatus Limited.
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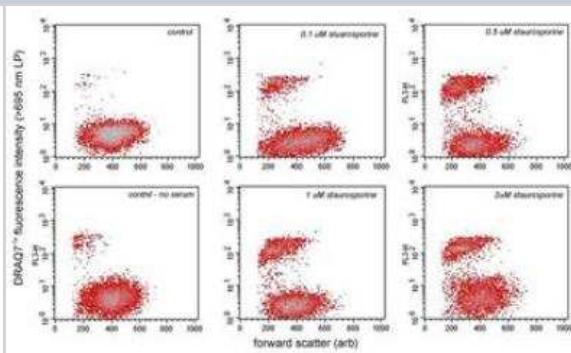
Product Application Details

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.

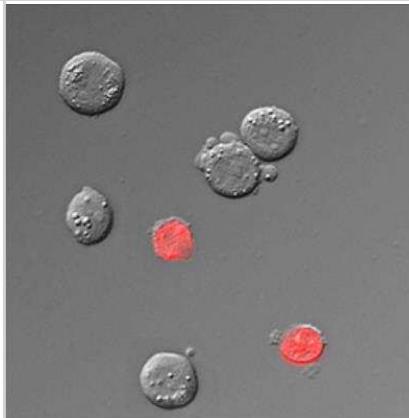


Images

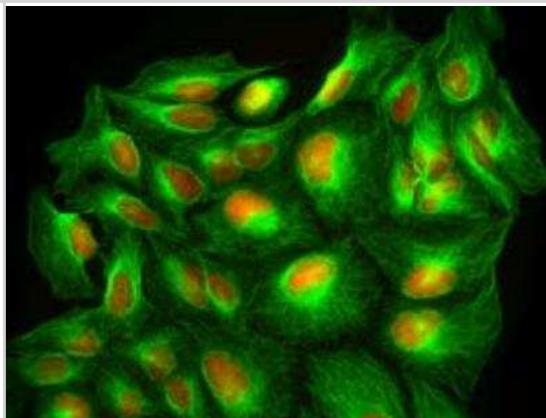
Flow Cytometry: DRAQ7 (TM) [NBP2-81126] - Lymphoma cells treated with increasing quantities of staurosporine (STS). reports STS-induced apoptosis and cell death in dose-dependent manner with clear separation of positive and negative events.



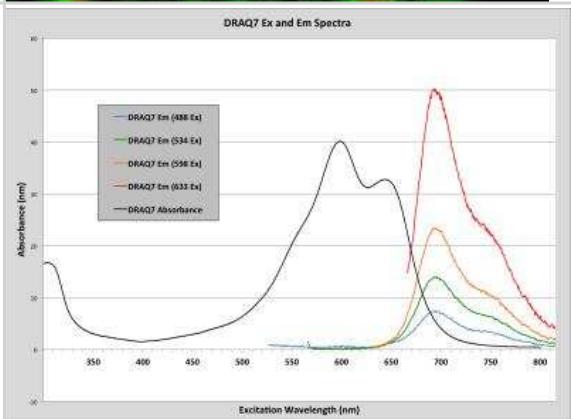
Live Imaging Microscopy: DRAQ7 (TM) [NBP2-81126] - DRAQ7(TM) was added directly to unfixed THP-1 cells in RPMI + 20% FBS culture media at 3 uM (1:100) for 30 minutes at room temperature and protected from light. Imaging was done immediately after staining without washing the cells.



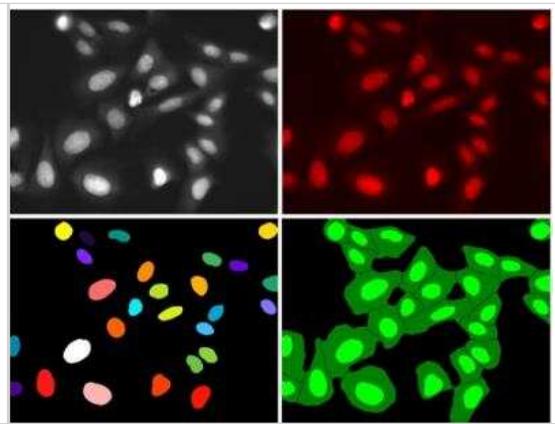
Immunocytochemistry/Immunofluorescence: DRAQ7 (TM) [NBP2-81126] - Formaldehyde-fixed U2OS cells labelled with (red, nuclei+D8 and AlexaFluor 488 antibody to beta-tubulin (green)).



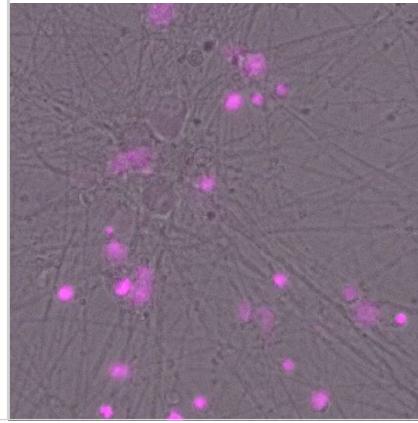
DRAQ7 (TM) [NBP2-81126] - Spectral properties of DRAQ7 (TM) - spectral compatibility with UV-excited and most vis. Range fluorochromes for multi-colour analysis. Detection from blue excitation is achievable only by flow cytometry.



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]



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