

# Product Datasheet

## **DRAQ9 (TM)** **NBP2-81128-200ul**

Unit Size: 200 ul

Store at -20C.

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[technical@novusbio.com](mailto:technical@novusbio.com)

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**NBP2-81128-200ul**

DRAQ9 (TM)

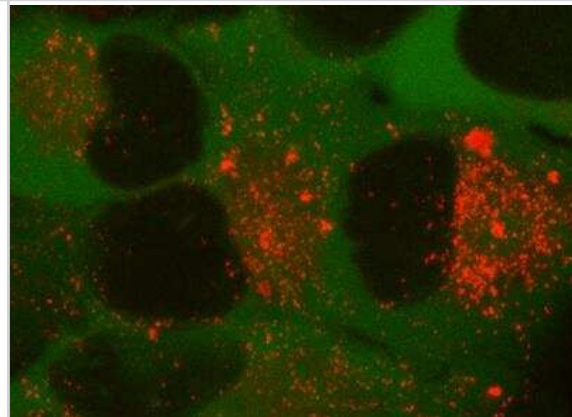
Product Information	
<b>Unit Size</b>	200 ul
<b>Concentration</b>	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
<b>Storage</b>	Store at -20C.
<b>Purity</b>	>97%

Product Description	
<b>Description</b>	<p><b>Key Features of DRAQ9 (TM) :</b>            Far-red dye that stains membranous structures in the cytoplasm but not the nucleus            Live-cell, permeant dye that can be used for live or fixed cells            Track cells through mitotic cell division and monitor spheroid/organoid cultures in real-time            Non-toxic and optimal for long-term imaging studies, up to several days            Used for cell painting or mosaic analysis in high content phenotypic screening            Spectrally compatible with GFP/FITC and UV-excited probes such as Hoechst</p>
<b>Notes</b>	Products are shipped at ambient temperature, but on receipt packs should be stored at -20C. Thaw and adjust temperature to above 20C before use.

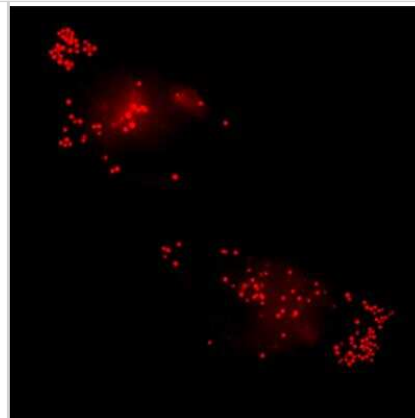
Product Application Details	
<b>Applications</b>	Immunocytochemistry/ Immunofluorescence, Live Imaging Microscopy, Fluorescence Imaging
<b>Recommended Dilutions</b>	Immunocytochemistry/ Immunofluorescence 1:50 - 1:500, Live Imaging Microscopy 1:500, Fluorescence Imaging 1:50 - 1:500
<b>Application Notes</b>	DRAQ9 (TM) is supplied as a DMSO solution at a concentration of 1mM: the 200 ul size equates to 8x 24-multi-well plates and 5x 96-microtiter plates. The 1 ml size equates to 40x 24-multi-well plates, 25x 96-microtiter plates, and 3.3x 384-microtiter plates.

**Images**

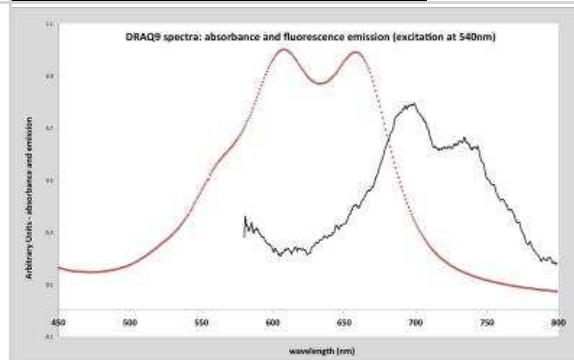
Fluorescence Imaging: DRAQ9 (TM) [NBP2-81128] - Cells stained with .



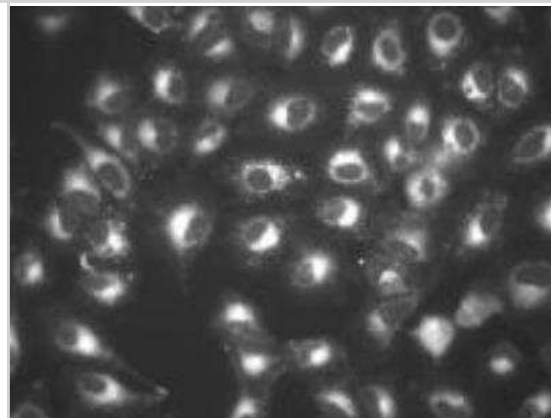
Live Imaging Microscopy: DRAQ9 (TM) [NBP2-81128] - DRAQ9 was diluted in EMEM culture media and applied to live HeLa cells at 2  $\mu$ M (1:500) for 30 minutes at room temperature and protected from light. Imaging was done immediately after staining without washing the cells.



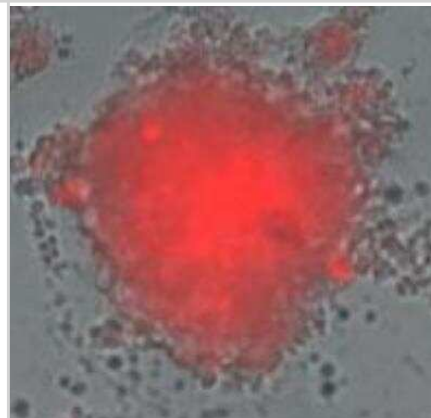
DRAQ9 (TM) [NBP2-81128] - Excitation and Emission Spectra for DRAQ9 (TM).



Live Imaging Microscopy: DRAQ9 (TM) [NBP2-81128] - labelling of live U2OS cells for 48 h at 2  $\mu$ M - showing a number of cells in mitosis.



Fluorescence Imaging: DRAQ9 (TM) [NBP2-81128] - 6-day U2OS spheroid with continuous labeling with at 2  $\mu$ M.



## Publications

Yosief R, Nebbioso G, Koshkin V et al. Making Cytometry of Reaction Rate Constant (CRRC) Applicable to Motile Cells ChemRxiv 2022-04-21 (CS)



### **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

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