

# Product Datasheet

## APO-BRDU (TUNEL) Apoptosis Kit NBP2-31161

Unit Size: 1 Kit

Storage of components varies. See protocol for specific instructions.

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**NBP2-31161****APO-BRDU (TUNEL) Apoptosis Kit****Product Information**

<b>Unit Size</b>	1 Kit
<b>Concentration</b>	Concentration is not relevant for this product. Please see the protocols for proper use of this product.
<b>Storage</b>	Storage of components varies. See protocol for specific instructions.

**Product Description**

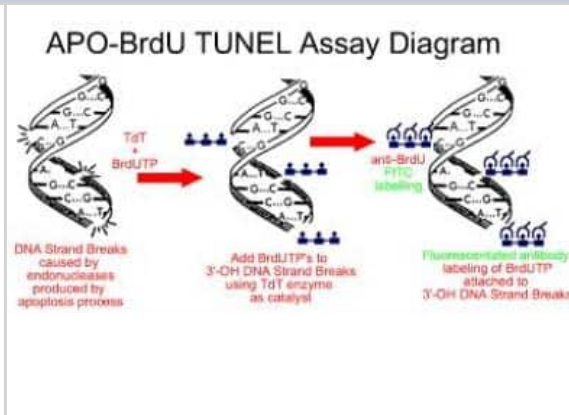
<b>Description</b>	The APO-BRDU™ kit is a two color TUNEL assay for labeling DNA breaks (FITC) along with total cellular DNA (Propidium Iodide) to detect apoptotic cells. The kit contains all necessary reagents including positive and negative controls.
<b>Kit Components</b>	Positive Control Cell, Negative Control Cells, Wash Buffer, Reaction Buffer, TdT Enzyme, Br-dUTP, Rinsing Buffer, Propidium Iodide/RNase DNA staining solution, Fluorescein-anti-BrdU antibody

**Product Application Details**

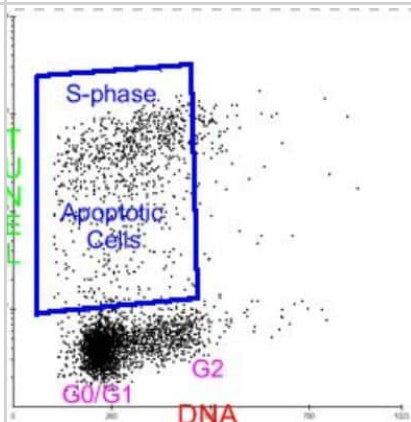
<b>Applications</b>	Flow Cytometry, Immunocytochemistry/ Immunofluorescence
<b>Recommended Dilutions</b>	Flow Cytometry, Immunocytochemistry/ Immunofluorescence
<b>Application Notes</b>	Please centrifuge the TdT Enzyme for 30 seconds, upon warming, to ensure all liquid is at the bottom of the tube.

**Images**

APO-BRDU (TUNEL) Apoptosis Kit [NBP2-31161] - Figure showing the addition of Br-dUTP catalyzed by TdT to the 3'-OH sites of DNA strand breaks induced in the genome of apoptotic cells.



APO-BRDU (TUNEL) Apoptosis Kit [NBP2-31161] - Figure showing apoptotic cells undergoing apoptosis in S-phase.



## Publications

Xu J, Su SM, Zhang X et al. ATP11B inhibits breast cancer metastasis in a mouse model by suppressing externalization of nonapoptotic phosphatidylserine Journal of Clinical Investigation 2022-03-01 [PMID: 35025764]

Choudhary P, Roy T, Chatterjee A et al. Melatonin rescues swim stress induced gastric ulceration by inhibiting matrix metalloproteinase-3 via down-regulation of inflammatory signaling cascade Life sciences 2022-02-23 [PMID: 35218765]

Higashi Y, Matsumoto K, Saitoh H Et Al. Iodine containing porous organosilica nanoparticles trigger tumor spheroids destruction upon monochromatic X-ray irradiation: DNA breaks and K-edge energy X-ray Scientific reports 2021-07-14 [PMID: 34262055]

Yuan B, Broadbent JA, Huan J et al. The Effects of Adipose Stem Cell-Conditioned Media on Fibrogenesis of Dermal Fibroblasts Stimulated by Transforming Growth Factor-beta 1 J Burn Care Res 2018-01-01 [PMID: 29931303] (CA, Human)





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### **Limitations**

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