

Product Datasheet

HypoxiTRAK(TM) NBP3-18531

Unit Size: 500 ul

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

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Updated 2/9/2025 v.20.1

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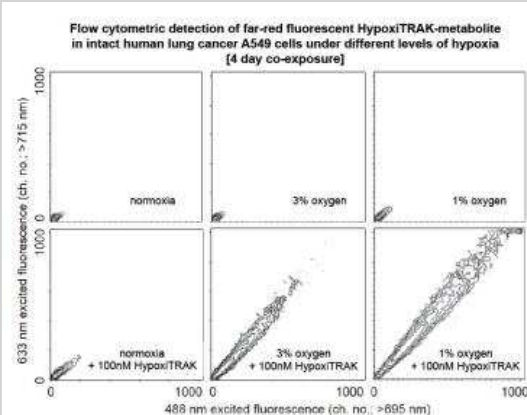


NBP3-18531**HypoxiTRAK(TM)**

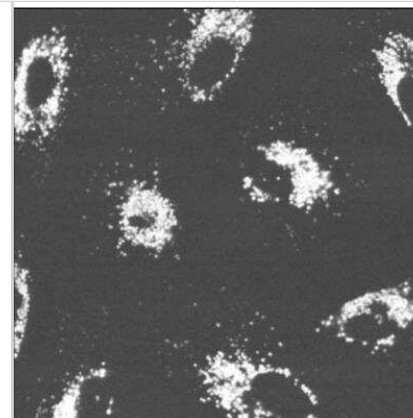
Product Information	
Unit Size	500 ul
Concentration	Please see the protocols for proper use of this product. If no protocol is available, contact technical services for assistance.
Storage	Store at 4C in the dark. Do not freeze.
Product Description	
Description	<p>HypoxiTRAK(TM) is a novel, far-red fluorescing dye that reveals hypoxic experience of individual cells yet is non-toxic to normoxic cells. It is suitable for flow cytometry and imaging protocols and is compatible with common vis. range fluors e.g. FITC, R-PE. HypoxiTRAK(TM) enables entirely new assay approaches to functional hypoxia.</p> <p>HypoxiTRAK(TM) can be used in flow cytometry and fluorescence imaging and is spectrally compatible with common visible range fluors including FITC and R-PE.</p> <p>HypoxiTRAK(TM) is supplied as a faint blue aqueous solution at a concentration of 10uM. Products are shipped at ambient temperature, but on receipt packs should be stored at 2-8C. DO NOT FREEZE! Otherwise HypoxiTRAK(TM) can come out of solution when frozen and it is difficult (but not impossible) to get it back into solution.</p> <p>HypoxiTRAK(TM) can be diluted in culture media (e.g. RPMI 1640) and physiological buffers (eg PBS, Hanks's, etc.).</p>
Notes	HypoxiTRAK(TM) is a registered trademark of BioStatus Limited.
Product Application Details	
Applications	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Functional Assay
Recommended Dilutions	Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Functional Assay
Application Notes	<p>Flow Cytometry: suitable for dynamic live cell hypoxia study; extract statistical information on the distribution of hypoxic experience over both time and treatment conditions</p> <p>Immunocytochemistry/Immunofluorescence: dynamic live cell hypoxia study; immuno-fluorescence; gain understanding of the spatial hypoxic experience in micro-tissues and spheroids</p>

Images

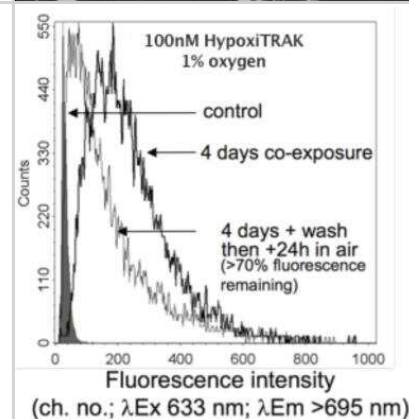
Flow Cytometry: HypoxiTRAK(TM) [NBP3-18531] - Flow cytometry of -metabolite, blue & red excitation; intact A549 cells under hypoxia (3%, 1%), with & without [4 day co-exposure]



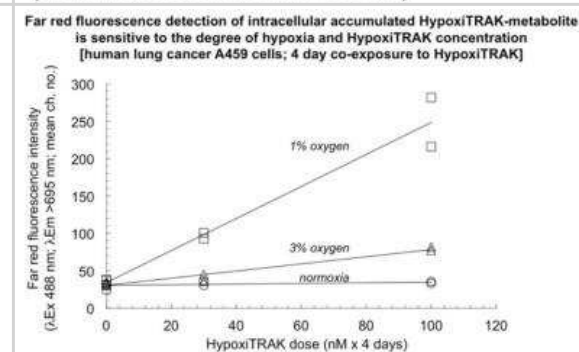
Immunocytochemistry/Immunofluorescence: HypoxiTRAK(TM) [NBP3-18531] - -metabolite accumulates in cytoplasm of A549 cells (ex. 633 nm; em. 680/20 nm) exposed to 100 nM for 4 days 1% O₂



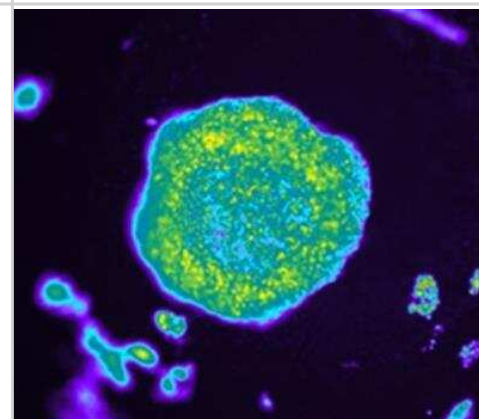
Flow Cytometry: HypoxiTRAK(TM) [NBP3-18531] - -metabolite persistence: intact A549 cells retain >70% after washing and 24h incubation in -free medium (ex. 633nm; em. >695nm)



HypoxiTRAK(TM) [NBP3-18531] - Intracellular accumulation of HypoxiTRAK(TM)-metabolite is sensitive to degree of hypoxia and [HypoxiTRAK] (A549 cells, conditions as image 2)



Immunocytochemistry/Immunofluorescence: HypoxiTRAK(TM) [NBP3-18531] - Multi-Cellular Tumor Spheroid (MCTS) generated from 5000 cells (Cal33, HNC) in a ULA well. MCTS grown for 3 days then probed with 50 nM HypoxiTRAK(TM) for a further 3 days. False-color heatmap image shows hypoxia reported in a cortical pattern and with a hypocellular centre (by Hoechst staining consistent with controls, not shown). Courtesy of DA Close & PA Johnston - University of Pittsburgh, School of Pharmacy.





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