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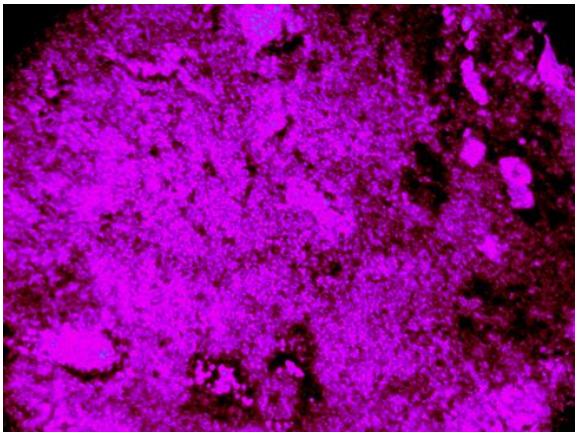

Hypoxyprobe™ RedAPC Kit

(HPI Catalog # HP8-XXX)

Description: Mouse IgG1 monoclonal antibody conjugated to Allophycocyanin (APC) fluorophore (HP-RedAPC-MAb) and *x* mg of solid pimonidazole HCl (*x* = 100, 200 or 1000 mg).

Specificity: Pimonidazole forms adducts with thiol containing proteins at pO2 ≤ 10 mm Hg. HPRedAPC-MAb binds to pimonidazole adducts in hypoxic cells in tissues and in culture. Please see www.hypoxyprobe.com for details of the Hypoxyprobe system for detecting cell and tissue hypoxia.

Format: Each vial of HP-RedAPC-MAb contains anti-pimonidazole antibody dissolved in 200 microliters of stabilized buffer at a concentration of approximately 0.50 mg/mL.

Product Type: Fluorophor conjugated IgG_1 mouse monoclonal antibody (clone 4.3.11.3)

Fluorophore Protein Ratio: ≥ 1 APC moiety per IgG_1 molecule.

Fluorescence: Excitation 633 nm; Emission max 660 nm. Allophycocyanin has strong red fluorescence.

Product Details

Applications: Flow cytometry on isolated cells and immunofluorescence on frozen tissue sections. HP-APC-MAb is an alternative to FITC-labeled anti-pimonidazole mouse monoclonal antibody[1]. 1/20-1/200 dilution is suggested but users should optimize in their system using appropriate negative and positive controls. Image above: human tumor xenograft hypoxia (red); 1/200 dilution of HP-RedAPC overnight at 4ºC on frozen section. (Courtesy of Hans Peters, Radboud University Nijmegen Medical Centre, Nijmegen, The Netherlands.)

Target Species: All.

Product Form: Purified IgG_1 prepared by affinity chromatography

Buffer: Proprietary formulation containing stabilizers.

1. Jankovic B, Aquino-Parsons C, Raleigh JA, et al. Comparison between pimonidazole binding, oxygen electrode measurements, and expression of endogenous hypoxia markers in cancer of the uterine cervix. Cytometry B Clin Cytom 2006; 70: 45-55.