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Hypoxyprobe™ Red APC MAb

(HPI Catalog # Mouse-APC-Mab)

Description: 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.

Format: Fluorophore conjugated IgG1 mouse monoclonal antibody (clone 4.3.11.3)

Product Form: Buffer:

Product Type: Purified IgG1 prepared by affinity chromatography Proprietary formulation containing stabilizers.

Fluorophore-Protein Ratio: ≥ 1 APC moiety per IgG1 molecule.

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

Product Details

Specificity: Mouse IgG1 monoclonal antibody conjugated to Allophycocyanin (APC) fluorophore (HP-RedAPC-MAb) Pimonidazole forms adducts with thiol containing proteins at $pO_2 \leq 10$ mm Hg. HP- RedAPC-MAb binds to pimonidazole adducts in hypoxic cells in tissues and in culture.

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 antibody¹.

Target Species: All

Please see www.hypoxyprobe.com for details of the Hypoxyprobe system for detecting cell and tissue hypoxia.

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 4°C on frozen section. (Courtesy of Hans Peters, Radboud University Nijmegen Medical Centre, Nijmegen, The Netherlands.).

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.