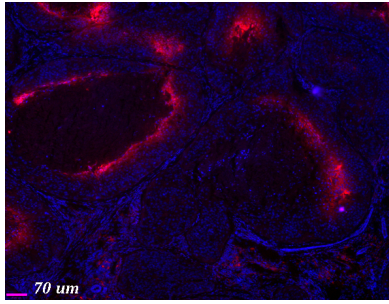




Hypoxyprobe, Inc.
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www.hypoxyprobe.com



Data Sheet: Hypoxyprobe™ RedAPC Kit (Cat# HP8-x)

- 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).
- Specificity:** 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. 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:** IgG₁ mouse monoclonal antibody (clone 4.3.11.3)
- Fluorophore-Protein Ratio:** ≥ 1 APC moiety per IgG₁ 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 antibody¹. 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.)
- Target Species:** All.
- Product Form:** Purified IgG₁ 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.