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## Data Sheet: Hypoxyprobe™ Red APC MAb

### Product Details

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 IgG <sub>1</sub> prepared by affinity chromatography Proprietary formulation containing stabilizers.
Fluorophore- Protein Ratio:	≥1 APC moiety per IgG <sub>1</sub> molecule.
Fluorescence:	Excitation 633 nm; Emission max 660 nm. Allophycocyanin has strong red fluorescence.
Specificity:	Mouse IgG1 monoclonal antibody conjugated to Allophycocyanin (APC) fluorophore (HP-RedAPC-MAb) Pimonidazole forms adducts with thiol containing proteins at pO <sub>2</sub> ≤ 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 antibody <sup>1</sup> .
Target Species:	All

Please see [www.hypoxyprobe.com](http://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.