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**Data Sheet: Hypoxyprobe™ Red PE Mab Antibody**  
(HPI Catalog # HP-1 RED PE MAb-1)

- Description:** Mouse IgG1 monoclonal antibody conjugated to RED Phycoerythrin (PE) (HP RED PE MAb)
- Specificity:** Pimonidazole forms adducts with thiol containing tissue proteins at  $pO_2 \leq 10$ mm Hg. HP-1 RED PE MAb binds to pimonidazole adducts in hypoxic cells in tissue and tissue culture.
- Format:** Each vial of HP RED PE MAb contains the antibody dissolved in 200 microliters of stabilized diluent at a concentration of approximately 0.5 mg/mL.
- Fluorophore-Protein Ratio:** 5:1
- Fluorescence:** Extremely bright red-orange fluorescence. High quantum yield. Excited at 496nm, 546nm, and 565nm maxima. The emission maximum is at 578nm.
- Applications:** Designed for IF, Western Blotting, MAA, Flow cytometry, ELISA, and other assays that require high sensitivity fluorescence.
- Target Species:** All species
- Product Form:** Purified IgG1 prepared by affinity chromatography
- Buffer:** Proprietary formulation containing stabilizers.