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Data Sheet: Hypoxyprobe™ Biotin MAb-1 Antibody
(HPI Catalog # HP Biotin MAb-1)

- Description:** Rat IgG1 monoclonal antibody conjugated to Biotin (HP-Biotin Mab)
- Specificity:** Pimonidazole forms adducts with thiol containing tissue proteins at $pO_2 \leq 10$ mm Hg. HP Biotin MAb-1 binds to pimonidazole adducts in hypoxic cells in tissue and tissue culture.
- Format:** Each vial of HP-Biotin MAb-1 contains the antibody dissolved in 200 microliters of stabilized diluent at a concentration of approximately 0.5 mg/ml.
- Biotin-Protein Ratio:** 5:1
- Applications:** This product, when coupled with a streptavidin fluorescent dye bound secondary, can be used for any fluorescence application. This product, when coupled with a streptavidin dye bound secondary reagent, can be used for any IHC application. Since the biotin-streptavidin bond is virtually unbreakable, nanotechnology applications are suitable even though they often use harsh soaps. Endogenous biotin that is in some tissue types must be blocked during processing to get an accurate hypoxia measurement.
- Target Species:** All species
- Product Form:** Purified IgG1 prepared by affinity chromatography
- Buffer:** Proprietary formulation containing stabilizers.