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Data Sheet: Hypoxyprobe™ Green Kit (Cat# HP6-x) (Updated 2015)

Description:	Mouse IgG1 monoclonal antibody conjugated to fluorescein (HP-FITC-MAb) and x mg of solid pimonidazole HCl ($x = 100, 200$ or 1000). This Kit is similar to the Hypoxyprobe-1 Plus Kit but does not contain the secondary rabbit horseradish peroxidase conjugated anti-FITC antibody that is in the Plus Kit.
Specificity:	Pimonidazole forms adducts with thiol containing proteins at $pO_2 \leq 10$ mm Hg. HP-FITC-MAb binds to pimonidazole adducts in hypoxic cells in tissues and in cell culture. Please see www.hypoxyprobe.com for details of the Hypoxyprobe system for detecting cell and tissue hypoxia.
Format:	Each vial of HP-FITC-MAb contains anti-pimonidazole antibody dissolved in 200 microliters of stabilized buffer at a concentration of approximately 0.5 mg/mL.
Product Type:	FITC conjugated IgG ₁ mouse monoclonal antibody (clone 4.3.11.3)
Fluorophore-Protein Ratio:	≥ 4 FITC moieties per IgG ₁ molecule.
Fluorescence:	Excitation 488 nm; Emission max 518 nm. FITC exhibits strong green fluorescence.

Product Details

Applications:	Flow cytometry on isolated cells and immunofluorescence on frozen tissue sections ¹ . A dilution of 1/20-1/200 is suggested as a working guide but it is recommended that users titrate the product for use in their system using appropriate negative and positive controls.
Target Species:	All.
Product Form:	Purified IgG ₁ prepared by affinity chromatography
Buffer:	Proprietary formulation containing 0.09% sodium azide and 1% bovine serum albumin as 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.