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## Data Sheet: Hypoxyprobe™ Pacific Blue Kit (Cat# HP15-x)

Description:	Included in this kit are both the Mouse IgG <sub>1</sub> monoclonal antibody conjugated to Pacific Blue fluorophore (HP-Pacific Blue) as well as “x” mg of solid pimonidazole HCl ( $x = 100, 200$ or $1000$ mg).
Specificity:	Pimonidazole HCl forms adducts with thiol containing tissue proteins at $pO_2 \leq 10$ mm Hg. HP-Pacific Blue binds to pimonidazole adducts in hypoxic cells in tissue and tissue culture.
Format:	Each vial of HP-Pacific Blue contains the antibody dissolved in 200 microliters of stabilized diluent at a concentration of approximately 0.5 mg/mL.
Product Type:	Fluorophore conjugated IgG <sub>1</sub> mouse monoclonal antibody (clone 4.3.11.3)
Fluorophore Protein Ratio:	$\geq 5$ molecules of Pacific Blue per mouse IgG1 molecule.
Fluorescence:	Excitation 405 nm; Emission max 455 nm. Ideal for UV detection of hypoxia.

## Product Details

Applications:	Flow cytometry and immunofluorescence on frozen tissue sections. HP-Pacific Blue is designed as an alternative to FITC labeled anti-pimonidazole mouse monoclonal antibody <sup>1</sup> . Unpublished data indicate that HP-Pacific Blue serves this purpose well. A dilution of 1/20-1/200 is suggested as a working guide only. It is recommended that users titrate the product for use in their system using appropriate negative and positive controls.
Target Species:	All species. This means that this product including the antibody can be used with any cell or tissue from plant or animal species as well as for human applications. Remember only pimonidazole HCl (non toxic) is to be introduced into the target. A biopsy is taken and the antibody is added to the biopsied tissue for staining or fluorescence measurements. The antibody product itself is toxic.
Product Form:	Purified mouse IgG <sub>1</sub> prepared by affinity chromatography
Buffer:	Proprietary formulation containing stabilizers.
Date:	March 2016