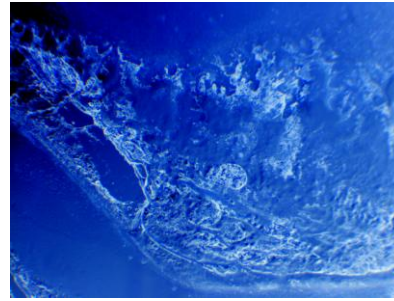


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Data Sheet: Hypoxyprobe™ ATTO 594 Kit (Cat# HP13-x)

Description:	Included in this kit are both the Mouse IgG ₁ monoclonal antibody conjugated to ATTO 594 fluorophore (HP-ATTO 594) 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 ≤ 10 mm Hg. HP-ATTO 594 binds to pimonidazole adducts in hypoxic cells in tissue and tissue culture.
Format:	Each vial of HP-ATTO 594 contains the antibody dissolved in 200 microliters of stabilized diluent at a concentration of approximately 0.5 mg/mL.
Product Type:	Fluorophore conjugated IgG ₁ mouse monoclonal antibody (clone 4.3.11.3)
Fluorophore Protein Ratio:	≥5 molecules of ATTO 594 per mouse IgG1 molecule.
Fluorescence:	Excitation 601 nm; Emission max 627 nm. While considered as a very strong and deep purplish red emitter, with a molar absorptivity of 120,000 M ⁻¹ cm ⁻¹ . A 90% quantum yield is available with this reagent making it ideal for sensitive applications.

Product Details

Applications:	Flow cytometry and immunofluorescence on frozen tissue sections. HP-ATTO 594 is designed as an alternative to FITC labeled anti-pimonidazole mouse monoclonal antibody ¹ . Unpublished data indicate that HP-ATTO 594 serves this purpose well.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. Image above: human tumor xenograft hypoxia (red); 1/200 dilution of HP-ATTO 594 overnight at 4°C on frozen section. (Courtesy of Hans Peters, Radboud University Nijmegen Medical Centre, Nijmegen, The Netherlands.)
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 ₁ prepared by affinity chromatography
Buffer:	Proprietary formulation containing stabilizers.
Date:	March 2016