PERFORMANCE DATA SHEET

2546

Monoclonal anti-human Hif-1α *



mAb name/Clone: ANC10G3

Isotype: Mouse IgG1k

Immunogen: Recombinant human Hif1a

CATALOG#: 335-020 QUANTITY: 100 μg

CONCENTRATION: 1.0 mg/ml

INFORMATION: Hypoxia Inducible Factor 1 alpha (Hif1 α) is a transcription factor which accumulates in the nucleus of cells in most tissues which are subjected to hypoxic conditions. There it stabilizes by associating with Hif1 beta (ARNT Clone ANC10G3 binds to recombinant human Hif1 α in EIA, as well as native HIf1 α present in nuclei of fixed permeabolized Nalm-6 cells cultured overnight with CoCl₂ to simulate hypoxia. It interferes with binding of anti-Hif1a clone 546-16, suggesting that their epitopes overlap.

Hif1 References: 1) GL Wang, GL Song, et al. (1993) PNAS 90: 4304.

STORAGE CONDITIONS: *Store at 2 - 5^oC*. Freeze/Thawing is not recommended.

PRODUCT STABILITY: Product should retain activity for at least 12 months after shipping date when stored as recommended. Ship Date:______

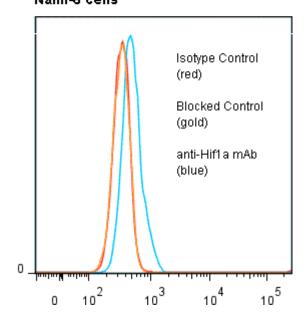
BUFFER: 50 mM Sodium Phosphate pH 7.5, 100 mM Potassium Chloride, 150mM NaCl, 0.5 mg/ml Gentamicin sulfate (as a preservative).

PRODUCTION: Antibody was Protein A purified from (low FBS containing) tissue culture supernatant. Purity

was >95% Immunoglobulin by SDS-PAGE and contains less than 1% Bovine Immunoglobulin. Product was 0.2 um filtered and vialed under aseptic conditions.

PERFORMANCE: Antibody specific activity was tested in FACS. Human Nalm-6 cells were cultured overnight in the presence of 200 μM CoCl₂ to simulate hypoxia, after which they were fixed and permeabolized using EBioscience FOXP3 staining kit. Five x 10^5 cells per tube were washed and incubated 45 minutes with anti-Hifla mAb at **5** μg/ml. Cells were washed twice and incubated with 2^0 reagent Goat anti-Mouse IgG/FITC (Catalog #232-011), after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of **0.13** \log_{10} fluorescent units when compared to a Mouse IgG1 negative control (Catalog #278-010). Binding was blocked when mAb was pre incubated with $100\mu g/ml$ recombinant Hif1α.

Binding of anti-Hif1 a Mab +GAM/FITC to CoCl2 treated fixed permeabolized Nalm-6 cells



Ancell Corporation P.O. Box 87 Bayport, MN 55003-0087 USA Phone: Toll free 800-374-9523 or 651-439-0835 Fax: 651-439-1940

^{*} Research Use Only. Not for use in Diagnostic procedures.