SPECIFICITY

Erythropoietin (EPO) is the major regulator of red blood cell production and is produced in the kidney in response to hypoxia. Clone 16F1H11 binds human EPO with a K_d of 8nM[1]. Anti-EPO 16 is neutralizing for human and mouse EPO. This clone binds to a conformational epitope on EPO

PRODUCT INFORMATION SHEET

Antibodies

STEMCELL TECHNOLOGIES

VERSION 2.0.1

Anti-EPO 16

Anti-Human Erythropoietin (EPO-16) Monoclonal Antibody

CATALOG #01300 100 µg

CLONE

16F1H11

ISOTYPE

IgG_1/κ (mouse)

PREPARATION

Monoclonal 16F1H11 was generated by immunizing mice with pure human urinary EPO.
Fusion Partner - myeloma SP2/0.
Purified from hybridoma culture supernatant by affinity chromatography on protein G Sepharose.

FORMAT

1 mg/mL in phosphate buffered saline. Does not contain sodium azide or BSA.

STABILITY AND STORAGE

Product stable at 2 - 8°C until expiry date as indicated on label. Do not freeze. Product has been sterility tested. Addition of 0.1% sodium azide (final) is recommended once vial is opened. Dilute with medium or phosphate buffered saline containing 0.1-1% BSA as carrier protein.

APPLICATIONS AND DIRECTIONS FOR USE

Centrifuge tube briefly before use to ensure recovery of entire contents.

Anti-Human EPO-16 can be used for: (1) immunoassay, (2) immunoaffinity isolation of human EPO, and (3) neutralization of human, mouse and baboon EPO activity in a dose-dependent manner.[1-4]

REFERENCES

1. Wognum AW, Lansdorp PM, Eaves CJ, Krystal G: Use of a sensitive bioimmunoabsorbent assay to isolate and characterize monoclonal antibodies to biologically active human erythropoietin. Blood 71:1731-7, 1988
2. Wognum AW, Lam V, Goudsmit R, Krystal G. A specific in vitro bioassay for measuring erythropoietin levels in human serum and plasma. Blood 76:1323-9, 1990
3. Wognum AW, Lansdorp PM, Krystal G: Immunochemical analysis of monoclonal antibodies to human erythropoietin. Exp Hematol 18:228-33, 1990
4. Wognum AW, Lansdorp PM, Humphries RK, Krystal G.: Detection and isolation of the erythropoietin receptor using biotinylated erythropoietin. Blood 76:697-705, 1990

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