

BACKGROUND

Transcription Factor II B (TFIIB) is an essential component of the RNA polymerase II (Pol II) machinery that acts as a bridge between the TATA-binding protein (TBP) and Pol II.¹ The C-terminal domain of TFIIB interacts with the TBP-TATA complex, whereas the N-terminal domain is required for the assembly of TFIIF and Pol II into the preinitiation complex. It is involved in the selection of the transcription start site: mutations in TFIIB cause a shift in the transcription start site.² In addition, TFIIB interacts with certain TBP-associated factors (TAFs) *in vitro*, and these interactions might contribute to recruitment or stable association of TFIIB in the context of an active transcription complex.³

References:

1. Ha, I. et al: Nature 352:689, 1991.
2. Lee, T. I. & Young, R. A. : Annu. Rev. Genet. 34:77, 2000.
3. Goodrich, J. A. et al: Cell 75:519, 1993.

TECHNICAL INFORMATION

Source:

E. coli-expressed recombinant human TFIIB protein fragments.

Specificity and Sensitivity:

Specifically detects endogenous levels of human TFIIB proteins. Does not cross-react with other related proteins.

Storage Buffer: PBS and 30% glycerol

Storage:

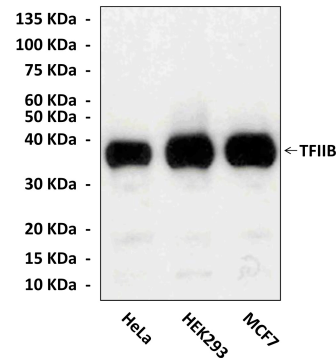
Store at -20°C for at least one year. Store at 4°C for frequent use. Avoid repeated freeze-thaw cycles.

APPLICATIONS

Application:	*Dilution:
WB	1:1000
IP	n/d
IHC	n/d
ICC	n/d
FACS	n/d

*Optimal dilutions must be determined by end user.

QUALITY CONTROL DATA



Specific detection of TFIIB proteins by Western Blot, using TFIIB (48C6) Mouse Monoclonal Antibody, in various cell lysates: HeLa, HEK293, and MCF7.

