

TFIIE- α (p57): sc-4028 WB

BACKGROUND

In eukaryotic systems, initiation of transcription from protein-coding genes is a complex process requiring RNA polymerase II and broad families of auxiliary transcription factors. Such factors can be divided into two major functional classes: the basal factors that are required for transcription of all Pol II genes, including TFIIA, TFIIB, TFIID, TFIIE, TFIIIF and TFIIH; and sequence-specific factors that regulate gene expression. The basal transcription factors and Pol II form a specific multiprotein complex near the transcription start site by interacting with core promoter elements such as the TATA box generally located 25-30 base pairs upstream of the transcription start site. Human TFIIE consists of two subunits of 56 kDa and 34 kDa molecular weight, respectively. The structure of TFIIE appears to be a heterotetramer ($\alpha_2\beta_2$) both subunits being required for optimal basal-level transcription.

REFERENCES

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SOURCE

TFIIE- α (p57) is expressed in *E. coli* as full length biologically active TFIIE- α p57 protein of human origin.

PRODUCT

TFIIE- α (p57) is purified from bacterial lysates (>10%) by sequential column chromatography; supplied as 10 μ g in 0.1 ml SDS-PAGE loading buffer.

APPLICATIONS

TFIIE- α (p57) is suitable as a Western blotting control for sc-237.

STORAGE

Store at -20° C; stable for one year from the date of shipment.

RESEARCH USE

For research use only, not for use in diagnostic procedures.