



Datasheet for ABIN2669687

TAF1 Protein (AA 1522-1656) (His tag,DYKDDDDK Tag)



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2 Images

Overview

Quantity:	100 µg
Target:	TAF1
Protein Characteristics:	AA 1522-1656
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TAF1 protein is labelled with His tag,DYKDDDDK Tag.
Application:	Binding Studies (Bind), Screening Assay (ScA)

Product Details

Characteristics: The peptide corresponding to amino acids 1522-1656 that contains the bromodomain sequences of TAF1 (accession number NP_004597.2) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag with an observed molecular weight of 21.75 kDa. It shows binding specificity for acetylated H3K14.

Target Details

Target:	TAF1
Alternative Name:	TAF1 (TAF1 Products)
Background:	TAF1 RNA polymerase II, TATA box binding protein (TBP)-associated factor (TAF1) is the largest component and core scaffold of the TFIID basal transcription factor complex. TAF1 contains novel N- and C-terminal Ser/Thr kinase domains which can autophosphorylate or

Target Details

transphosphorylate other transcription factors. TAF1 also contains bromodomains for interaction with other proteins. The bromodomain functions as a 'reader' of epigenetic histone marks and regulates chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. TAF1 has been shown to phosphorylate threonine 55 of p53 which leads to MDM2-mediated degradation of p53. TAF1 also phosphorylates GTF2A1 and GTF2F1 on serine residues. In addition, TAF1 possesses DNA-binding activity and is essential for progression of the G1 phase of the cell cycle.

Molecular Weight: 21.75 kDa

Application Details

Application Notes: Recombinant TAF1 (1522-1656) is suitable for use in binding assays, inhibitor screening, and selectivity profiling.

Restrictions: For Research Use only

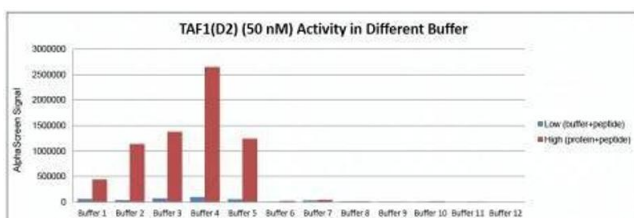
Handling

Handling Advice: Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

Storage: -80 °C

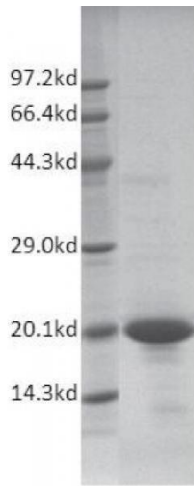
Storage Comment: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation.

Images



Activity Assay

Image 1. Recombinant TAF1 (1522-1656) activity using AlphaScreen. TAF1 (1522-1656) activity was assessed using an AlphaScreen® assay testing various buffer formulations. This data was generated and kindly provided courtesy of ChemPartner.



Western Blotting

Image 2. Recombinant TAF1 (1522-1656) protein gel. TAF1 (1522-1656) protein was run on an SDS-PAGE gel and stained with Coomassie blue.