TFII-I Antibody / GTF2I Transcription Factor Antibody [clone PCRP-GTF2I-1A7] (V5205)

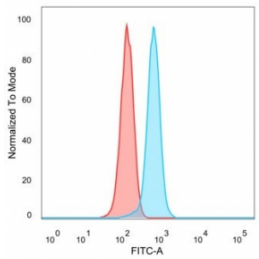
Catalog No.	Formulation	Size
V5205-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V5205-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V5205SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

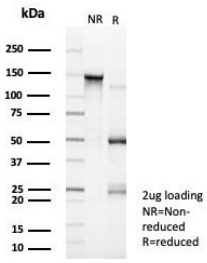
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	PCRP-GTF2I-1A7
Purity	Protein A/G affinity
UniProt	P78347
Localization	Nucleus
Applications	Flow cytometry: 1-2ug/million cells
Limitations	This TFII-I Antibody / GTF2I Transcription Factor Antibody is available for research use only.



TFII-I Antibody Protein Microarray Validation. Protein microarray analysis of TFII-I Antibody / GTF2I Transcription Factor Antibody, clone PCRP-GTF2I-1A7, using a HuProt array containing more than 19,000 full-length human proteins. The Z-score represents signal strength in standard deviations above the mean array signal, while the S-score represents the difference between the intended target Z-score and the next-highest signal and therefore reflects relative target specificity.



TFII-I Antibody in Human HeLa Cervical Cancer Cells FACS. Flow cytometry testing of TFII-I Antibody / GTF2I Transcription Factor Antibody, clone PCRP-GTF2I-1A7, in PFA-fixed human HeLa cervical cancer cells. Antibody staining followed by goat anti-mouse IgG-CF488 is shown in blue, while unstained cells are shown in red. A fluorescence shift relative to the unstained population demonstrates detection of GTF2I under the tested conditions.



TFII-I Antibody Purity Analysis by SDS-PAGE. Electrophoretic analysis of purified, BSA-free TFII-I Antibody / GTF2I Transcription Factor Antibody, clone PCRP-GTF2I-1A7, to evaluate antibody purity and integrity. The observed antibody protein pattern supports the purity and integrity of the monoclonal antibody preparation.

Description

TFII-I Antibody / GTF2I Transcription Factor Antibody recognizes GTF2I, a multifunctional DNA-binding transcriptional regulator commonly known as TFII-I. GTF2I participates in RNA polymerase II-dependent gene regulation and can interact with both promoter elements and signal-responsive transcriptional machinery. The protein therefore provides a molecular connection between transcriptional control and cellular signaling pathways that influence gene expression.

GTF2I can bind promoter elements including pyrimidine-rich initiator sequences and E-box motifs and functions as a transcriptional coregulator in multiple contexts. It participates in formation of regulatory complexes at the C-FOS promoter and can cooperate with serum response factor-associated proteins to influence signal-responsive transcription. GTF2I has also been described as BAP135 because of its association with Bruton's tyrosine kinase, further reflecting its relationship with signaling-dependent transcriptional regulation.

Beyond these activities, GTF2I contributes to transcriptional complexes involved in cellular differentiation and gene regulation. It participates in formation of functional ARID3A DNA-binding complexes and has been implicated in activation of immunoglobulin heavy-chain transcription following B-lymphocyte activation. GTF2I is consequently studied in research involving transcription factor biology, promoter regulation, signal-responsive gene expression and developmental mechanisms.

Clone PCRP-GTF2I-1A7 is a mouse monoclonal antibody generated against recombinant human GTF2I protein and purified by Protein A/G affinity chromatography. The antibody has been evaluated on a HuProt protein microarray containing more than 19,000 full-length human proteins. NSJ Bioreagents provides this TFII-I Antibody for research into transcriptional regulation and GTF2I biology. A GTF2I Transcription Factor Antibody can support investigation of TFII-I and its role in connecting promoter activity with cellular signaling.

For a GTF2I reagent validated across WB, IHC, IF and FACS, visit our GTF2I Antibody / General Transcription Factor II-I Antibody page.

Application Notes

Optimal dilution of the TFII-I Antibody / GTF2I Transcription Factor Antibody should be determined by the researcher.

Immunogen

Recombinant human protein was used as the immunogen for the GTF2I / TFII-I antibody.

Storage

Aliquot the GTF2I / TFII-I antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Alternate Names

TFII-I antibody, GTF2I antibody, general transcription factor II-I antibody, GTFII-I antibody, BAP135 antibody, WBSCR6 antibody

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