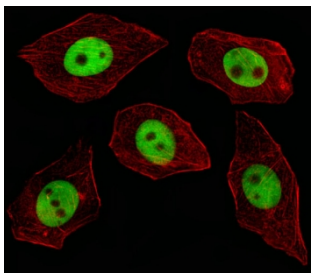
GTF2I Antibody / General Transcription Factor II-I Antibody (F54433)

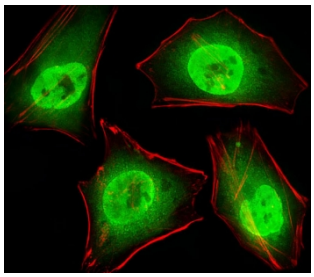
Catalog No.	Formulation	Size
F54433-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F54433-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

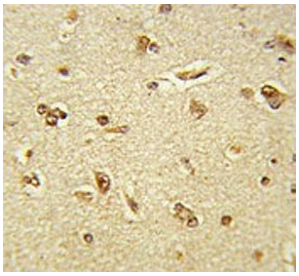
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity purified
UniProt	P78347
Applications	Immunofluorescence: 1:25 Western blot: 1:500-1:2000 Flow cytometry: 1:25 (1x10e6 cells) Immunohistochemistry (FFPE): 1:25
Limitations	This GTF2I Antibody / General Transcription Factor II-I Antibody is available for research use only.



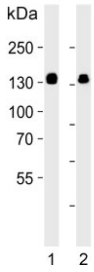
GTF2I Antibody in Human A549 Lung Cancer Cells IF. Immunofluorescence testing of GTF2I Antibody / General Transcription Factor II-I Antibody in fixed and permeabilized human A549 lung cancer cells. GTF2I staining is shown in green with actin counterstaining in red. The observed staining demonstrates detection of TFII-I/GTF2I in human A549 cells.



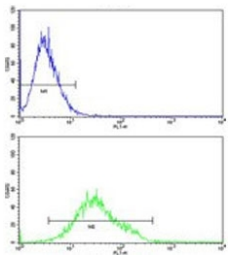
GTF2I Antibody in Human HeLa Cervical Cancer Cells IF. Immunofluorescence testing of GTF2I Antibody / General Transcription Factor II-I Antibody in human HeLa cervical cancer cells. GTF2I staining is shown in green with actin counterstaining in red. The observed staining demonstrates detection of TFII-I/GTF2I in human HeLa cells.



GTF2I Antibody in Human Brain IHC. Immunohistochemistry testing of GTF2I Antibody / General Transcription Factor II-I Antibody in FFPE human brain tissue. Heat-induced epitope retrieval was performed by steaming tissue sections in pH 6 citrate buffer for 20 min followed by cooling prior to staining. GTF2I immunoreactivity is observed in the tested brain tissue.



GTF2I Antibody in Human A431 and HeLa Cancer Cells WB. Western blot testing of GTF2I Antibody / General Transcription Factor II-I Antibody in human A431 epidermoid carcinoma and HeLa cervical cancer cell lysates. A prominent band is observed at approximately 130-135 kDa in both samples. GTF2I has a predicted molecular weight of approximately 112 kDa but can exhibit slower apparent migration by SDS-PAGE. This GTF2I Antibody demonstrates detection of TFII-I in multiple human cancer cell lines.



GTF2I Antibody in Human K562 Leukemia Cells FACS. Flow cytometry testing of GTF2I Antibody / General Transcription Factor II-I Antibody in human K562 leukemia cells. The GTF2I antibody-stained population is shown in green and the isotype control in blue. A fluorescence shift relative to the isotype control demonstrates detection of TFII-I/GTF2I under the tested conditions.

Description

GTF2I Antibody / General Transcription Factor II-I Antibody recognizes GTF2I, a multifunctional DNA-binding transcriptional regulator also known as TFII-I. GTF2I binds promoter elements including initiator and E-box sequences and participates in regulation of RNA polymerase II-dependent gene expression. Unlike general transcription factors that function primarily as components of the basal transcription machinery, GTF2I integrates promoter recognition with signals from cellular regulatory pathways, linking transcriptional control to changes in cellular activity.

GTF2I contains multiple characteristic GTF2I-like repeats and can interact with transcription factors and signaling proteins to influence gene expression. The protein has been reported to participate in transcriptional responses involving serum response factor and other promoter-associated regulators. GTF2I is also known as BAP135 because of its association with Bruton's tyrosine kinase, reflecting the connection between this transcription factor and signal-responsive pathways. Through these interactions, GTF2I is studied in the context of transcriptional regulation, cell signaling, proliferation and differentiation.

The GTF2I gene is located within chromosome 7q11.23, a region affected by the recurrent deletion responsible for Williams-Beuren syndrome. GTF2I is consequently studied in developmental and neuroscience research examining the molecular consequences of this genomic deletion. The protein is broadly expressed, including in the brain, and research

has also implicated TFII-I in processes involving calcium signaling and myelination. In addition, somatic alterations of GTF2I have been investigated in cancer, further extending interest in this transcriptional regulator across developmental biology and tumor research.

This rabbit polyclonal antibody was generated against a peptide corresponding to amino acids 956-985 of human GTF2I and purified by antigen affinity chromatography. NSJ Bioreagents provides this GTF2I Antibody for research into transcriptional regulation, signal-responsive gene expression and GTF2I biology. A General Transcription Factor II-I Antibody can support investigation of TFII-I function and the molecular mechanisms connecting transcriptional regulation with cellular signaling.

Explore our Transcription Factor Antibodies page for additional reagents targeting proteins involved in transcriptional regulation, promoter activity and gene expression.

Application Notes

The stated application concentrations are suggested starting points. Titration of the GTF2I Antibody / General Transcription Factor II-I Antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 956-985 from the human protein was used as the immunogen for the GTF2I antibody.

Storage

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

Alternate Names

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

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