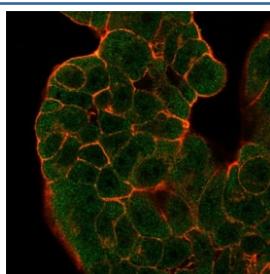


## BTF2 p44 Antibody / GTF2H2 / TFIIH [clone PCRP-GTF2H2-1B9] (V9196)

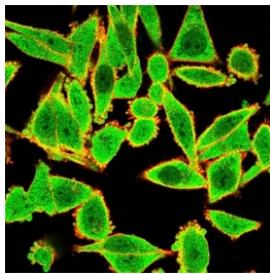
Catalog No.	Formulation	Size
V9196-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9196-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9196SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

**Bulk quote request**

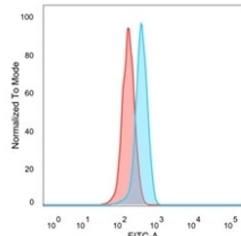
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human
<b>Format</b>	Purified
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal (mouse origin)
<b>Isotype</b>	Mouse IgG1
<b>Clone Name</b>	PCRP-GTF2H2-1B9
<b>Purity</b>	Protein A/G affinity
<b>UniProt</b>	Q13888
<b>Localization</b>	Nucleus
<b>Applications</b>	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml
<b>Limitations</b>	This BTF2 p44 antibody is available for research use only.



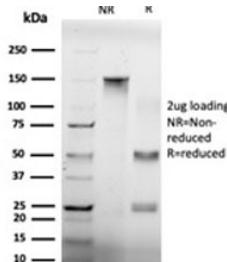
Immunofluorescent staining of PFA-fixed human MCF-7 cells BTF2 p44 antibody (green, clone PCRP-GTF2H2-1B9) and phalloidin (red).



Immunofluorescent staining of PFA-fixed human HeLa cells using BTF2 p44 antibody (green, clone PCRP-GTF2H2-1B9) and phalloidin (red).



FACS staining of PFA-fixed human HeLa cells with BTF2 p44 antibody (blue, clone PCRP-GTF2H2-1B9), and unstained cells (red).



SDS-PAGE analysis of purified, BSA-free BTF2 p44 antibody (clone PCRP-GTF2H2-1B9) as confirmation of integrity and purity.

#### Human Protein Microarray Specificity Validation



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using BTF2 p44 antibody (clone PCRP-GTF2H2-1B9). These results demonstrate the foremost specificity of the PCRP-GTF2H2-1B9 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

## Description

Initiation of transcription from protein-coding genes in eukaryotes is a complex process that requires RNA polymerase II, as well as families of basal transcription factors. Binding of the factor TFIID (TBP) to the TATA box is believed to be the first step in the formation of a multiprotein complex containing several additional factors, including TFIIA, TFIIB, TFIIE, TFIIF and TFII. TFIIH (or BTF2) is a multisubunit transcription/DNA repair factor that possesses several enzymatic activities. The core of TFIIH is composed of five subunits, designated p89 (XPB or ERCC3), p62, p52, p44 and p34. Additional subunits of the TFIIH complex are p80 (XPD or ERCC2) and the ternary kinase complex composed of Cdk7, cyclin H and Mat1. Both p89 and p80 have ATP-dependent helicase activity. The p62, p52 and p44 subunits have been shown to be involved in nucleotide excision repair.

## Application Notes

Optimal dilution of the BTF2 p44 antibody should be determined by the researcher.

## Immunogen

Recombinant full-length human GTF2H2 protein was used as the immunogen for the BTF2 p44 antibody.

## Storage

Aliquot the BTF2 p44 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.