

## GTF2H2 / BTF2 / TFIIH Basal Transcription Factor Antibody

Mouse Monoclonal Antibody [Clone PCR-P-GTF2H2-1B9]

Catalog No	Format	Size
2966-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2966-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2966-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

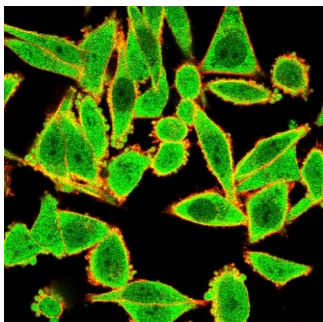
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

### Product Details

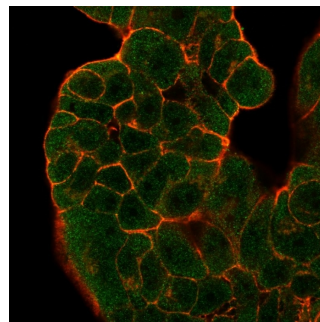
<b>Clone</b>	PCR-P-GTF2H2-1B9
<b>Gene Name</b>	GTF2H2
<b>Immunogen</b>	Recombinant full-length human GTF2H2 protein
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1
<b>Mol. Weight of Antigen</b>	44kDa
<b>Cellular Localization</b>	Nucleus
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	HeLa or MCF7 cells.

*\*Optimal dilution for a specific application should be determined.*

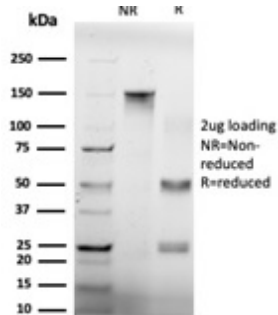
### Product Images for GTF2H2 / BTF2 / TFIIH Basal Transcription Factor Antibody



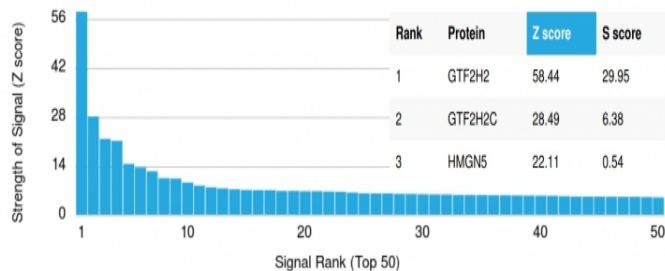
Immunofluorescence Analysis of PFA-fixed HeLa cells. GTF2H2 Mouse Monoclonal Antibody (PCR-P-GTF2H2-1B9) followed by goat anti-mouse IgG-CF488 (green). Phalloidin counterstain (red).



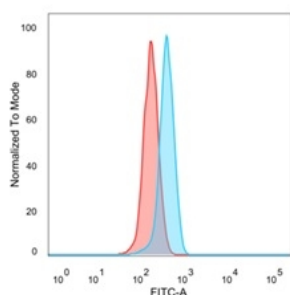
Immunofluorescence Analysis of PFA-fixed MCF7 cells. GTF2H2 Mouse Monoclonal Antibody (PCR-P-GTF2H2-1B9) followed by goat anti-mouse IgG-CF488 (green). Phalloidin counterstain (red).



SDS-PAGE Analysis Purified GTF2H2 Mouse Monoclonal Antibody (PCRP-GTF2H2-1B9). Confirmation of Purity and Integrity of Antibody.



Analysis of Protein Array containing more than 19,000 full-length human proteins using GTF2H2 Mouse Monoclonal Antibody (PCRP-GTF2H2-1B9). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



Flow Cytometric Analysis of PFA-fixed HeLa cells. GTF2H2 Mouse Monoclonal Antibody (PCRP-GTF2H2-1B9) followed by goat anti-mouse IgG-CF488 (blue); unstained cells (red).

## Specificity & Comments

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, TFIIIF 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.

## Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

## Supplied As

200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

## Storage and Stability

Antibody with azide - store at 2 to 8 °C. Antibody without azide - store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

## Research Areas

Infectious Disease, Nuclear Marker, Transcription Factors