

GTF2A1/ TFIIA (Transcription Factor) Antibody

Mouse Monoclonal Antibody [Clone PCRP-GTF2A1-1F2]

Catalog No	Format	Size
2957-MSM1-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
2957-MSM1-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
2957-MSM1-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

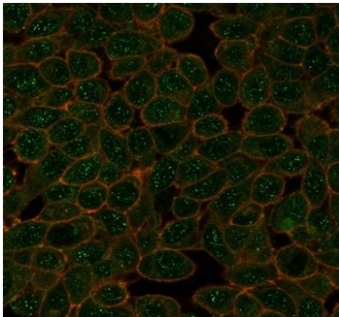
Applications	Tested Dillution	Note
Flow Cytometry (Flow)	1-2ug/million cells	
Immunofluorescence (IF)	1-3ug/ml	

Product Details

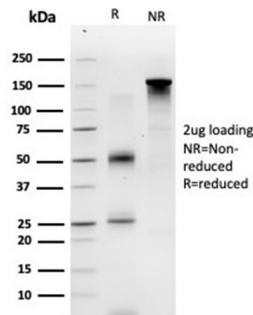
Clone	PCRP-GTF2A1-1F2
Gene Name	GTF2A1
Immunogen	Recombinant full-length human GTF2A1 protein
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG2b
Mol. Weight of Antigen	41.51kDa
Cellular Localization	Nucleus
Species Reactivity	Human
Positive Control	HeLa or MCF-7 cells.

*Optimal dilution for a specific application should be determined.

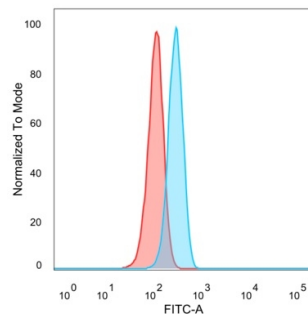
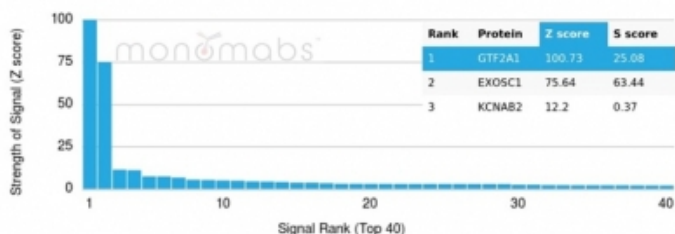
Product Images for GTF2A1/ TFIIA (Transcription Factor) Antibody



Immunofluorescence Analysis of PFA-fixed HeLa cells stained using GTF2A1 Mouse Monoclonal Antibody (PCRP-GTF2A1-1F2) followed by goat anti-mouse IgG-CF488 (green). CF640A phalloidin (red).



Immunofluorescence Analysis of PFA-fixed HeLa cells stained using GTF2A1 Mouse Monoclonal Antibody (PCRP-GTF2A1-1F2) followed by goat anti-mouse IgG-CF488 (green). CF640A phalloidin (red).



Analysis of Protein Array containing more than 19,000 full-length human proteins using GTF2A1-Monospecific Mouse Monoclonal Antibody (PCRP-GTF2A1-1F2). 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. GTF2A1 Mouse Monoclonal Antibody (PCRP-GTF2A1-1F2) followed by goat anti-mouse IgG-CF488 (blue); isotype control (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 formation of the preinitiation complex (PIC) which contains several additional factors, including TFIIA, TFIIB, TFIIE, TFIIF and TFIIH. Recognition of the TATA binding element by TBP may be regulated by TFIIA. TFIIA consists of three subunits designated TFIIA-1, TFIIA-2 and TFIIA-3, all of which associate with both TBP and TAF (TBP-associated factor). TFIIA functions to stabilize the interaction between TFIID and DNA by binding directly to TBP and the DNA (at the TATA box), thus forming a TBP/TFIIA/TATA complex which mediates the transcriptional output of a gene.

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, Signal Transduction, Transcription Factors