

Product Datasheet

GTF2H2C Antibody (orb2636823)

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|----------------------------|--|
| 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 TFIIH. 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. |
| Species/Host | Mouse |
| Reactivity | Human |
| Conjugation | Unconjugated |
| Tested Applications | FACS, IF, IHC-P, WB |
| Immunogen | Recombinant full-length human GTF2H2C protein was used as the immunogen for the GTF2H2C antibody. |
| Preservatives | 0.2 mg/ml in 1X PBS with 0.1 mg/ml rAlbumin (US sourced), 0.05% sodium azide |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Note | For research use only |
| Application notes | Optimal dilution of the GTF2H2C antibody should be determined by the researcher. |
| Formula | 0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide |
| Isotype | Mouse IgG2c |

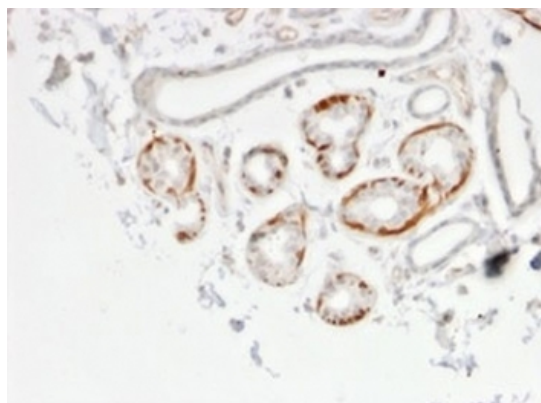
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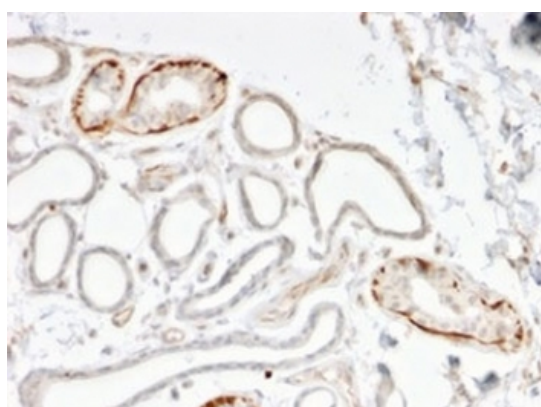
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| | |
|---------------------------|--|
| Clonality | Monoclonal |
| Clone Number | PCRP-GTF2H2C-2C9 |
| Purity | Protein A/G affinity |
| Uniprot ID | Q6P1K8 |
| Hazard Information | This GTF2H2C antibody is available for research use only. |
| Dilution Range | Flow cytometry: 1-2ug/million cells, Immunofluorescence: 1-2ug/ml, Western blot: 1-2ug/ml, Immunohistochemistry (FFPE): 1-2ug/ml |
| Expiration Date | 12 months from date of receipt. |



IHC staining of FFPE human breast carcinoma tissue with GTF2H2C antibody (clone PCRP-GTF2H2C-2C9). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.



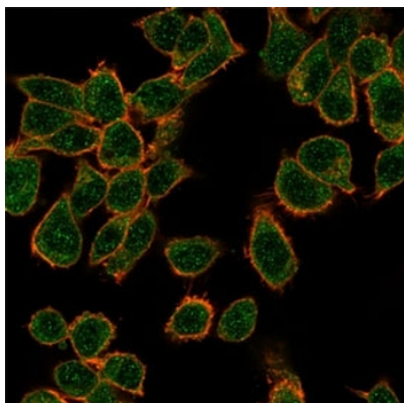
IHC staining of FFPE human breast carcinoma tissue with GTF2H2C antibody (clone PCRP-GTF2H2C-2C9). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 20 min and allow to cool before testing.

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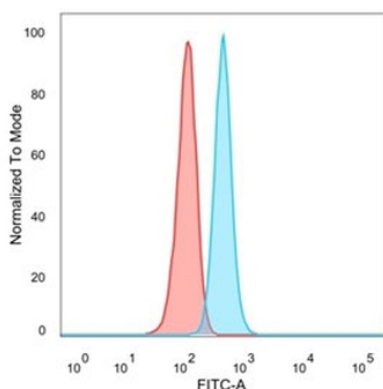
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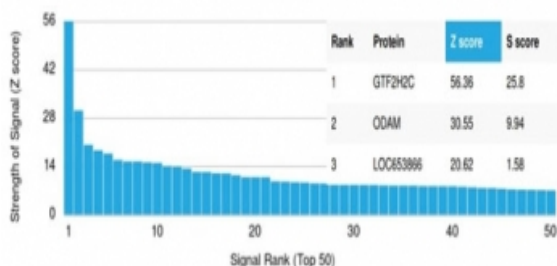


Immunofluorescent staining of PFA-fixed human HeLa cells using GTF2H2C antibody (green, clone PCR-P-GTF2H2C-2C9) and phalloidin (red).



FACS staining of PFA-fixed human HeLa cells with GTF2H2C antibody (blue, clone PCR-P-GTF2H2C-2C9), and unstained cells (red).

Human Protein Microarray Specificity Validation



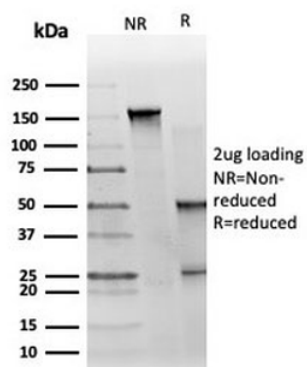
Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using GTF2H2C antibody (clone PCR-P-GTF2H2C-2C9). These results demonstrate the foremost specificity of the PCR-P-GTF2H2C-2C9 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (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.

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SDS-PAGE analysis of purified, BSA-free GTF2H2C antibody (clone PCR-P-GTF2H2C-2C9) as confirmation of integrity and purity.

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