

**Product Name: WBSCR11 Rabbit Polyclonal Antibody**  
**Catalog #: APRab19871**



## Summary

|                        |                                    |
|------------------------|------------------------------------|
| <b>Production Name</b> | WBSCR11 Rabbit Polyclonal Antibody |
| <b>Description</b>     | Rabbit Polyclonal Antibody         |
| <b>Host</b>            | Rabbit                             |
| <b>Application</b>     | WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA    |
| <b>Reactivity</b>      | Human,Mouse,Rat                    |

## Performance

|                     |                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------|
| <b>Conjugation</b>  | Unconjugated                                                                                      |
| <b>Modification</b> | Unmodified                                                                                        |
| <b>Isotype</b>      | IgG                                                                                               |
| <b>Clonality</b>    | Polyclonal                                                                                        |
| <b>Form</b>         | Liquid                                                                                            |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.          |
| <b>Buffer</b>       | Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N. |
| <b>Purification</b> | Affinity purification                                                                             |

## Immunogen

|                          |                                                                                                                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>         | GTF2IRD1                                                                                                                                                                                                                                         |
| <b>Alternative Names</b> | GTF2IRD1; CREAM1; GTF3; MUSTRD1; RBAP2; WBSCR11; WBSCR12; General transcription factor II-I repeat domain-containing protein 1; GTF2I repeat domain-containing protein 1; General transcription factor III; MusTRD1/BEN; Muscle TFII-I repeat do |
| <b>Gene ID</b>           | 9569.0                                                                                                                                                                                                                                           |
| <b>SwissProt ID</b>      | Q9UHL9.The antiserum was produced against synthesized peptide derived from human GTF2IRD1. AA range:71-120                                                                                                                                       |

## Application

|                       |                                                                              |
|-----------------------|------------------------------------------------------------------------------|
| <b>Dilution Ratio</b> | WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200 |
|-----------------------|------------------------------------------------------------------------------|

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**Molecular Weight** 106kDa

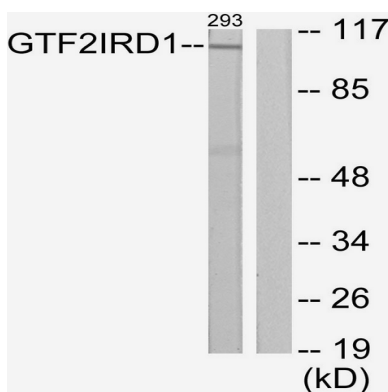
## Background

The protein encoded by this gene contains five GTF2I-like repeats and each repeat possesses a potential helix-loop-helix (HLH) motif. It may have the ability to interact with other HLH-proteins and function as a transcription factor or as a positive transcriptional regulator under the control of Retinoblastoma protein. This gene plays a role in craniofacial and cognitive development and mutations have been associated with Williams-Beuren syndrome, a multisystem developmental disorder caused by deletion of multiple genes at 7q11.23. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2010], developmental stage: Highly expressed in developing and regenerating muscles, at the time of myofiber diversification., disease: Haploinsufficiency of GTF2IRD1 may be the cause of certain cardiovascular and musculo-skeletal abnormalities observed in Williams-Beuren syndrome (WBS), a rare developmental disorder. It is a contiguous gene deletion syndrome involving genes from chromosome band 7q11.23., domain: The N-terminal half may have an activating activity., function: May be a transcription regulator involved in cell-cycle progression and skeletal muscle differentiation. May repress GTF2I transcriptional functions, by preventing its nuclear residency, or by inhibiting its transcriptional activation. May contribute to slow-twitch fiber type specificity during myogenesis and in regenerating muscles. Binds troponin I slow-muscle fiber enhancer (USE B1). Binds specifically and with high affinity to the EFG sequences derived from the early enhancer of HOXC8., PTM: Phosphorylated upon DNA damage, probably by ATM or ATR., similarity: Belongs to the TFII-I family., similarity: Contains 5 GTF2I-like repeats., subunit: Interacts with the retinoblastoma protein (RB1) via its C-terminus., tissue specificity: Highly expressed in adult skeletal muscle, heart, fibroblast, bone and fetal tissues. Expressed at lower levels in all other tissues tested.,

## Research Area

Basal transcription factors;

## Image Data

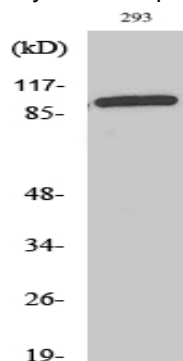


Western blot analysis of lysates from 293 cells, using GTF2IRD1 Antibody. The lane on the right is blocked with the

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synthesized peptide.



Western Blot analysis of various cells using WBSCR11 Polyclonal Antibody. Secondary antibody was diluted at 1:20000 cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA) .

### **Note**

For research use only.