BIO MATRIX RESEARCH™

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## Catalog No.BMR 00190

# Mouse monoclonal antibody Anti-Human GTF2IRD1

**Lot No. GTF5I102-2**
**Clone No. GTF5I102**
**Antibody class : IgG1**
**Immunogen : Recombinant**

### Formulation
Mouse monoclonal anti-human **GTF2IRD1** antibody in PBS (3.0 mM KCl, 1.5 mM $KH_2PO_4$, 140 mM NaCl, 8.0 mM $Na_2HPO_4$ (pH 7.4)) containing 1% bovine serum albumin (BSA) and 0.05% sodium azide ($NaN_3$).

### Antibody concentration
100 µg/ml (1.0 ml)

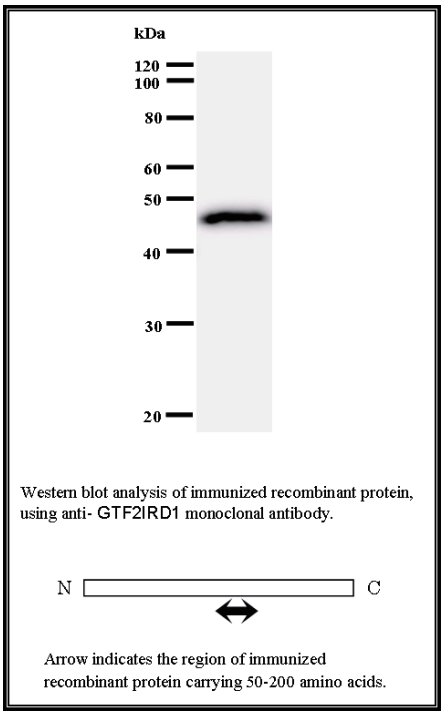
### Storage
Store at 2-8℃ for up to one year.
We recommend storing at –20℃ for long-term storage.
Avoid repeat freezing and thawing cycles.

### Preparation
This antibody was purified using protein G column chromatography from culture supernatant of hybridoma cultured in a medium containing bovine IgG-depleted (approximately 95%) fetal bovine serum.

### Sterility
Filtered through a 0.22 µm membrane.

### Applications
Please visit our website at http://www.biomatrix.co.jp/.

### Disposal
This antibody solution contains sodium azide ($NaN_3$) as a preservative. There is a potential hazard that $NaN_3$ reacts with copper or lead to produce an explosive compound. For safe disposal, the vial has to be washed thoroughly with water.




Western blot analysis of immunized recombinant protein, using anti- GTF2IRD1 monoclonal antibody.

Arrow indicates the region of immunized recombinant protein carrying 50-200 amino acids.

### Safety warnings and precautions
Caution must be taken to avoid contact with skin or eyes. In such a case, rinse thoroughly at once with water.
Do not ingest, inhale, or swallow. Seek medical attention immediately.
Wear appropriate protective clothing such as laboratory overalls, safety glasses and gloves.
It is strongly advised that this product should be handled by people who have been well trained in laboratory techniques and that it is handled with care pursuant to the principles of good laboratory practice.
All chemicals are deemed potentially harmful.
The vial is prone to fall over. Use caution, especially when the lid is off.

FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC PROCEDURES.

**manufactured by BMR**

Catalog No. **BMR00190**

# Mouse monoclonal antibody Anti-Human GTF2IRD1

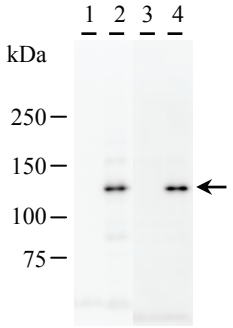
## Background

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 is deleted in Williams-Beuren syndrome, a multisystem developmental disorder caused by deletion of multiple genes at 7q11.23. Alternative splicing of this gene generates at least 2 transcript variants. [NCBI Entrez Gene Summary]

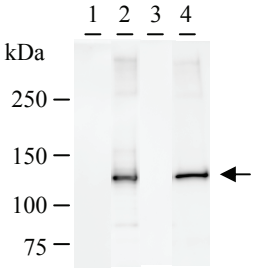
## Recommended condition

WB: 0.2-2 µg/ml IP: 100-500 µg/sample ICC: 2-100 µg/ml

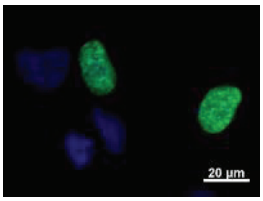
## Application




Detection of human GTF2IRD1 by Western blot. Sample: Whole cell lysate was obtained from HeLa cells transiently transfected with vector (lanes 1, 3) or myc-tagged human GTF2IRD1 (lanes 2, 4). Primary antibodies: anti-myc tag (1 µg/ml) (lanes 1, 2) or anti-human GTF2IRD1 (BMR00190) (2 µg/ml) (lanes 3, 4). [GTF5I102-2]
Predicted molecular weight: 106 kDa




Immunoprecipitation: RIPA lysate of HeLa cells transfected with vector (lanes 1, 3) or myc-tagged GTF2IRD1 (lanes 2, 4) was incubated with anti-GTF2IRD1 (BMR00190) conjugated with protein G sepharose. Immunocomplex was analyzed by Western blot with anti-myc tag (lanes 1, 2) or anti-GTF2IRD1 (lanes 3, 4). [GTF5I102-2]




Localization of human GTF2IRD1 in HeLa cells. HeLa cells transiently transfected with the myc-tagged GTF2IRD1 expression vector were fixed and stained with anti- GTF2IRD1 (BMR00190) and Hoechst 33342. Human GTF2IRD1 fluorescence signals were observed exclusively in nucleus of the cells expressing recombinant protein. [GTF5I102-2]